

The Complete Javascript Developer Mean Stack Zero To Hero

JavaScript Allongé solves two important problems for the ambitious JavaScript programmer. First, JavaScript Allongé gives you the tools to deal with JavaScript bugs, hitches, edge cases, and other potential pitfalls. There are plenty of good directions for how to write JavaScript programs. If you follow them without alteration or deviation, you will be satisfied. Unfortunately, software is a complex thing, full of interactions and side-effects. Two perfectly reasonable pieces of advice when taken separately may conflict with each other when taken together. An approach may seem sound at the outset of a project, but need to be revised when new requirements are discovered. When you “leave the path” of the directions, you discover their limitations. In order to solve the problems that occur at the edges, in order to adapt and deal with changes, in order to refactor and rewrite as needed, you need to understand the underlying principles of the JavaScript programming language in detail. You need to understand why the directions work so that you can understand how to modify them to work properly at or beyond their original limitations. That’s where JavaScript Allongé comes in. JavaScript Allongé is a book about programming with functions, because JavaScript is a programming language built on flexible and powerful functions. JavaScript Allongé begins at the beginning, with values and expressions, and builds from there to discuss types, identity, functions, closures, scopes, and many more subjects up to working with

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classes and instances. In each case, JavaScript Allongé takes care to explain exactly how things work so that when you encounter a problem, you'll know exactly what is happening and how to fix it. Second, JavaScript Allongé provides recipes for using functions to write software that is simpler, cleaner, and less complicated than alternative approaches that are object-centric or code-centric. JavaScript idioms like function combinators and decorators leverage JavaScript's power to make code easier to read, modify, debug and refactor, thus avoiding problems before they happen. JavaScript Allongé teaches you how to handle complex code, and it also teaches you how to simplify code without dumbing it down. As a result, JavaScript Allongé is a rich read releasing many of JavaScript's subtleties, much like the Café Allongé beloved by coffee enthusiasts everywhere.

License: CC BY-SA 3.0 Source is available from Github * <https://github.com/justinkelly/javascript-allonge>

Over 50 recipes to create full-stack high-performance web applications using pure JavaScript and the MEAN stack.

About This Book*

- Architect a fully functional stand-alone web application, including the web server, database, and front-end web application*
- Improve the performance and maintainability of your MEAN stack application with tips for configuration and optimization*
- Highlights MEAN Stack best practices when working with your application

Who This Book Is For

If you are a JavaScript developer who wants to create high-performing, modern web applications with the MEAN stack, this is the book for you. Web developers familiar with some parts of the MEAN stack will find this a

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comprehensive guide to fleshing out the other technologies and skills they need to build all JavaScript web applications. Developers interested in transitioning from other web application stacks to an all-JavaScript environment will find a wealth of information about how to work in a MEAN stack environment. To get the most from this book, you should have a general understanding of web servers and web applications. You are expected to have a basic understanding of running JavaScript, both in a web browser and outside it, using Node.js and the NPM package manager.

What You Will Learn*

- Bootstrap a new MEAN stack web application using Node.js and Express*
- Build a single-page application (SPA) with Angular and Angular-CLI*
- Improve browser performance by optimizing your web application resources using Webpack*
- Model complex JSON object relationships in MongoDB using Mongoose*
- Debug all the layers of a MEAN stack application, including working with source maps*
- Build Restful APIs using Express.js and JSON Web Token (JWT) for user authentication*
- Use automated testing to improve the reliability and quality of your MEAN stack application

In DetailThe MEAN Stack is a framework for web application development using JavaScript-based technologies; MongoDB, Express, Angular, and Node.js. If you want to expand your understanding of using JavaScript to produce a fully functional standalone web application, including the web server, user interface, and database, then this book can help guide you through that transition. This book begins by configuring the frontend of the MEAN stack web application using the Angular

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JavaScript framework. We then implement common user interface enhancements before moving on to configuring the server layer of our MEAN stack web application using Express for our backend APIs. You will learn to configure the database layer of your MEAN stack web application using MongoDB and the Mongoose framework, including modeling relationships between documents. You will explore advanced topics such as optimizing your web application using WebPack as well as the use of automated testing with the Mocha and Chai frameworks. By the end of the book, you should have acquired a level of proficiency that allows you to confidently build a full production-ready and scalable MEAN stack application. Style and Approach This book is a guide of MEAN Stack specific solutions to common web application problems and includes in-depth guides for each layer of the application stack. Readers looking to upgrade their MEAN Stack web application will find recipes within to help them transition.

Develop your real-time MEAN application efficiently using a combination of MongoDB, Express, Angular, and Node About This Book Construct a fully-functional MEAN application by using its components along with the best third-party modules Harness the power of the JavaScript ecosystem to effectively run, build, and test your MEAN application Gain a deep, practical understanding of real-time web application development through real-world examples Who This Book Is For If you are a JavaScript developer who is interested in building modern web applications using MongoDB, Express, Angular 2, and Node 5.0, then this book is for you. You only need

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knowledge of JavaScript development. What You Will Learn Use MongoDB to store and retrieve your application's data Connect your Express application to MongoDB and use the Mongoose module Manage your users' authentication and offer them diverse login options using Passport Structure and use an Angular 2 application in your MEAN project Use Socket.io to create real-time communication between your client and server Test your application's Express and Angular 2 entities In Detail The MEAN stack is a collection of the most popular modern tools for web development that helps you build fast, robust, and maintainable web applications. Starting with the MEAN core frameworks, this pragmatic guide will explain the key concepts of each framework, how to set them up properly, and how to use popular modules to connect it all together. By following the real-world examples shown in this tutorial, you will scaffold your MEAN application architecture, add an authentication layer, and develop an MVC structure to support your project development. You will learn the best practices of maintaining clear and simple code and will see how to avoid common pitfalls. Finally, you will walk through the different tools and frameworks that will help expedite your daily development cycles. Watch how your application development grows by learning from the only guide that is solely orientated towards building a full, end-to-end, real-time application using the MEAN stack! Style and approach This comprehensive guide covers every part of the MEAN stack, and focuses on the gestalt power of the apps they can create through practical, real-world examples

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Get started with speed building AngularJS applications, and scale up to a full-stack web application, using the existing AngularJS framework without the trouble of migrating to Angular 2

About This Book Follow the best practices of the framework to organize and modularize your application Get to grips with Angular's Model-View-Controller architecture Create application modules with maximum reusability and extensibility Structure and use AngularJS applications in your MEAN project in your MEAN project

Who This Book Is For This course is for people who want to discover how they can improve their current web applications with the existing version of Angular without having to worry much about migrating to AngularJS 2

What You Will Learn Install and set up the AngularJS framework Create your own full-featured and robust AngularJS web apps Create reusable directives and then extend the behavior of HTML on your web page Optimize and maintain your web applications Create more powerful full-stack web applications, that draw on the combined power of AngularJS, Node.js, MongoDB, and Express in the MEAN stack

In Detail The AngularJS course is a journey to help you improve and scale your current web applications with the existing version of Angular without having to worry about migration to Angular 2. The course is divided into four modules. The first part—AngularJS Essentials is like a practical guide, filled with many step-by-step examples that will lead you through the best practices of AngularJS. After a brief introduction, you will learn how to create reusable components with directives. You will then take a look at many data handling techniques, discover a complete set

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of technologies that are capable to accomplish any challenge related to present, transform, and validate data on the user's interface. Finally, you will discover the best way to deal with the scope and how to break up the application into separate modules, giving rise to reusable and interchangeable libraries. With this you've crossed a milestone and are about to enter the world of learning by example. In the next part—Learning AngularJS By Example, you will learn how to effectively build apps using the AngularJS platform. You will be building multiple apps on this platform ranging from simple ones to more complex ones. In this module, you will roll up your coding sleeves and create a serious AngularJS application by example – a rich featured workout app. Take the coding a step at a time at first, then once you're coding a full app in this module, a lot of AngularJS will fall right into place for you. The third module—AngularJS Web Application Development Cookbook, will get you accustomed to the AngularJS concept armed with a solid understanding of how it works, insight into the best ways to wield it in real-world applications, and annotated code examples. It is a rich library of AngularJS coding solutions that you can use straight away in your own code projects. You are just a step away from completing this learning path of AngularJS. The name of the next part—MEAN Web Development itself assures that you are nearing the destination. The idea is simple with this part, you'll take MongoDB as the database, Express as the web framework, AngularJS as the frontend framework, and Node.js as the platform, and combine them together in a modular approach that will ensure the

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flexibility needed in modern software development. This is also your graduation to full-stack web development, which can open many new coding and career opportunities for you! Style and approach Get up to speed building AngularJS applications, then improve and scale full-stack web applications, using the existing AngularJS framework without the trouble of migrating to Angular 2

Bootstrap stands as the most popular open-source, front-end framework on the Web. Since its official release in 2011, it has undergone several changes, and it's now one of the most stable and responsive frameworks available. It's loved by web developers of all levels, as it gives them the capability to build a functional, attractive website design within minutes. A novice developer with just some basic knowledge of HTML and little CSS can easily get started with Bootstrap. This collection presents three books: *Your First Week With Bootstrap*, a collection of articles introducing Bootstrap 8 *Practical Bootstrap Projects*, which presents several complete, real world Bootstrap projects *Bootstrap: Related Tools & Skills*, which contains a collection of articles outlining essential tools and skills that every Bootstrap developer should know. This collection is for all frontend developers who want to build responsive, mobile-first websites with Bootstrap. You'll need to be familiar with HTML and CSS and have a reasonable level of understanding of JavaScript in order to follow the discussion.

With *Learning JavaScript Design Patterns*, you'll learn how to write beautiful, structured, and maintainable JavaScript by applying classical and modern design

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patterns to the language. If you want to keep your code efficient, more manageable, and up-to-date with the latest best practices, this book is for you. Explore many popular design patterns, including Modules, Observers, Facades, and Mediators. Learn how modern architectural patterns—such as MVC, MVP, and MVVM—are useful from the perspective of a modern web application developer. This book also walks experienced JavaScript developers through modern module formats, how to namespace code effectively, and other essential topics. Learn the structure of design patterns and how they are written Understand different pattern categories, including creational, structural, and behavioral Walk through more than 20 classical and modern design patterns in JavaScript Use several options for writing modular code—including the Module pattern, Asynchronous Module Definition (AMD), and CommonJS Discover design patterns implemented in the jQuery library Learn popular design patterns for writing maintainable jQuery plug-ins "This book should be in every JavaScript developer's hands. It's the go-to book on JavaScript patterns that will be read and referenced many times in the future."—Andrée Hansson, Lead Front-End Developer, presis!

While there have been quite a few attempts to get JavaScript working as a server-side language, Node.js (frequently just called Node) has been the first environment that's gained any traction. It's now used by companies such as Netflix, Uber and Paypal to power their web apps. Node allows for blazingly fast performance; thanks to its event loop model, common

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tasks like network connection and database I/O can be executed very quickly indeed. From a beginner's point of view, one of Node's obvious advantages is that it uses JavaScript, a ubiquitous language that many developers are comfortable with. If you can write JavaScript for the client-side, writing server-side applications with Node should not be too much of a stretch for you. This collection contains three books that will help get you up and running with Node. It contains: *Your First Week With Node.js*, which will get started using Node, covering all of the basics. *9 Practical Node.js Projects*, which offers a selection of hand-on practical projects to develop your skills. *Node.js: Related Tools & Skills*, which outlines essential tools and skills that all Node developers should know.

Assemble the complete stack required to build a modern web app using MongoDB, Express, React, and Node. This book also covers many other complementary tools: React Router, GraphQL, React-Bootstrap, Babel, and Webpack. This new edition will use the latest version of React (React 16) and the latest React Router (React Router 4), which has a significantly different approach to routing compared to React Router 2 which was used in the first edition of the book. Though the primary focus of *Pro MERN Stack* is to equip you with all that is required to build a full-fledged web application, a large portion of the book will be devoted to React 16. The popular MEAN (MongoDB, Express, AngularJS, Node) stack introduced Single Page Apps (SPAs) and front-end Model-View-Controller (MVC) as new and efficient paradigms. Facebook's React is a technology that competes

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indirectly with AngularJS. It is not a full-fledged MVC framework. It is a JavaScript library for building user interfaces (in some sense the View part). Yet, it is possible to build a web app by replacing AngularJS with React – hence the term MERN stack

What You Will Learn Discover the features of React 16 to get the maximum out of this library Gain the basics of MongoDB, Express, and Node to build a web app Work with other libraries complementary to React, including React-Bootstrap, React Router, and GraphQL Use tools such as Babel and Webpack required to build JavaScript-based SPAs Tie all the components together to build a complete web app. Who This Book Is For Developers and architects who have prior experience in any web app stack other than the MERN stack will find the book useful to learn about this modern stack. Prior knowledge of JavaScript, HTML, and CSS is required.

"Learn all of the different aspects of full stack JavaScript development using the MEAN stack. In this primer course we will be introducing each section of the stack and in 16 videos we show you how to build an application using the latest and greatest technologies out there at the moment. Throughout this course we'll show you how to use each of these technologies, and how to use them together. Build great JavaScript applications using MongoDB, Express, Angular2+, TypeScript and Node.js. The overall aim of the course is to enable you to confidently build all different types of application using the MEAN stack."--Resource description page.

Understand the technical foundations, as well as the non-programming skills needed to be a successful full stack

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web developer. This book reveals the reasons why a truly successful full stack developer does more than write code. You will learn the principles of the topics needed to help a developer new to agile or full stack working—UX, project management, QA, product management, and more— all from the point of view of a developer. Covering these skills alongside the fundamentals and foundations of modern web development, rather than specifics of current technologies and frameworks (which can age quickly), all programming examples are given in the context of the web as it is in 2018. Although you need to feel comfortable working on code at the system, database, API, middleware or user interface level, depending on the task in hand, you also need to be able to deal with the big picture and the little details. The Full Stack Developer recognizes skills beyond the technical, and gives foundational knowledge of the wide set of skills needed in a modern software development team.

What You'll Learn

- Plan your work including Agile vs Waterfall, tools, scrum, kanban and continuous delivery
- Translate UX into code: grids, component libraries and style guides
- Design systems and system architectures (microservices to monoliths)
- Review patterns for APIs (SOAP, AJAX, REST), defining API domains, patterns for REST APIs and more API goodness
- Study the various front-end design patterns you need to know
- Store data, what to consider for security, deployment, in production and more

Who This Book Is For

New graduates or junior developers who are transitioning to working as part of a larger team structure in a multi-disciplinary teams and developers previously focused on

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only front-end or back-end dev transitioning into full stack.

JavaScript applications of today look a lot different from their predecessors of just five years ago. Because of this rapid growth in sophistication and capabilities, we've seen an explosion in JavaScript frameworks; the JavaScript development landscape is a fragmented one. To build large-scale JavaScript applications, we need more than just tools – we need scalable architectures. We create scalable JavaScript architectures by looking at what aspects of our application need to scale and why. Only then can we apply the best patterns and components to our architecture, scaling it into the future. JavaScript at Scale will show you how to deal with scalability from a number of perspectives; addressability, testability and component composition. The book begins by defining 'scale' from a JavaScript point of view, and dives into the influencers of scale, as well as scalable component composition and communication. We will also look at how large-scale architectures need the ability to scale down, and recover from failing components, as well as scale up and manage new features or a large user base. Filled with real-world JavaScript scaling scenarios, and code-first examples, JavaScript at Scale is your guide to building out applications that last. Each topic is covered in a way that it can be applied to your own unique scenarios; by understanding the fundamentals of a scaling issue, you'll be able to use that knowledge to tackle even the most difficult of situations. The code examples follow the same approach, using ECMAScript 6 syntax that can be

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translated to the framework of choice.

This is a hands-on book which introduces you to agile JavaScript web and mobile software development using the latest cutting-edge front-end and back-end technologies including: Node.js, MongoDB, Backbone.js, Parse.com, Heroku and Windows Azure. Practical examples include building multiple versions of the Chat app:•jQuery + Parse.com JS REST API•Backbone and Parse.com JS SDK•Backbone and Node.js•Backbone and Node.js + MongoDB The Chat application has all the foundation of a typical web/mobile application: fetching data, displaying it, submitting new data. Other examples in the book are as follows:•jQuery + Twitter RESP API “Tweet Analyzer”•Parse.com “Save John”•MongoDB “Print Collections”•Backbone.js “Apple Database”•Monk + Express.js “REST API Server” This book will save you many hours by providing a hand-picked and tested collection of quick start guides. RPJS has practical examples that allow to spend less time learning and more time building your own applications. Prototype fast and ship code that matters! What You will Learn: You should expect a basic understanding from a collection of quick start guides, tutorials and suggestions for the development apps discussed in this book. In addition to coding examples, the book covers virtually all setup and deployment step-by-step. You’ll learn from the examples of Chat web/mobile applications starting with front-end components and by the end we’ll put front-end and back-end together and deploy to the production environment. Who This Book is For: The typical programmer who wants to learn more about effective

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JavaScript coding.

Make use of Node.js to learn the development of a simple yet scalable cross-platform mobile application

About This Book Use Node.js to satisfy the core backend requirements of modern apps, including user management, security, data access, and real-time data communication Build practical real-world mobile applications, which will give you the necessary knowledge to build your very own mobile solutions Step-by-step development of projects using Ionic Framework as the frontend and Node.js for the backend supported by a MongoDB database Who This Book Is For This book is intended for web developers of all levels of expertise who want to deep dive into cross-platform mobile application development without going through the pains of understanding the languages and native frameworks that form an integral part of developing for different mobile platforms. This book is also for you if you are a developer who wants to capitalize on the MobileFirst strategy and so are going to use JavaScript for your complete stack. What You Will Learn Develop an API from scratch Set up a MongoDB Database as part of your mobile application backend Deploy a cross-platform mobile application from the command line Incorporate features within your mobile application that use native phone features such as a gyroscope, GPS, and accelerometer Implement mobile applications that use web-enabled APIs Build a mobile application with real-time chat messaging features Develop a secure mobile application that is capable of functioning with real-time data In Detail Node.js is a massively popular

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JavaScript library that lets you use JavaScript to easily program scalable network applications and web services. People approaching Node.js for the first time are often attracted by its efficiency, scalability, and the fact that it's based on JavaScript, the language of the Web, which means that developers can use the same language to write backend code. Also, it's increasingly being seen as a "modern" replacement for PHP in web development, which relies on fast-paced data exchange. The growing community and the large amount of available modules makes Node.js one of the most attractive development environments. This book takes a step-wise and incremental approach toward developing cross-platform mobile technologies using existing web technologies. This will allow you to truly understand and become proficient in developing cross-platform mobile applications with Node.js, Ionic Framework, and MongoDB. The book starts off by introducing all the necessary requirements and knowledge to build a mobile application with a companion web service. It covers the ability to create an API from scratch and implement a comprehensive user database that will give you the opportunity to offer a mobile application with a personalized experience. Midway through the book, you will learn the basic processes to create a successful mobile application. You will also gain higher-level knowledge, allowing you to develop a functional and secure mobile application to ensure a seamless user experience for end users. Finally, the book ends with more advanced projects, which will bring together all the knowledge and expertise developed in the previous

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chapters to create a practical and functional mobile-application that has useful real-world features. Style and approach This book is an easy-to-follow guide that takes a step-wise approach in giving expertise and knowledge to help you truly understand what is needed to create a memorable user experience for end users. Each topic is placed in the context of the bigger picture, that is, to create cross-platform mobile applications using existing technologies.

Write free, open-source, cross-platform, dynamic JavaScript applications that can run anywhere using the MEAN stack - MongoDB, ExpressJS, AngularJS, and Node.js. With this book Mac developers will get the tools needed to set up, write code once, and be able to deploy code on any device. You will be able to cut development time by using one stack to serve all your development needs. Pro MEAN Stack Development enables you to quickly learn everything needed to work effectively with MEAN, from setting up your toolstack to rolling out your free servers, and deploying on any device. You will also learn to build scripts with Grunt and Gulp, Webpack, and Vagrant and how to deploy to the web and mobile using Phonegap. Harness JavaScript to create dynamic and easily-maintainable applications fast and 100% free. Master the MEAN stack with this book today. What You Will Learn Utilize JavaScript for the entire development cycle from front end to back end, database and deployment. Learn to write responsive code that can be deployed on any device. Become a well-rounded developer and be able to understand the entire development cycle. Learn to utilize free open source and

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cloud services to deploy production-grade code. Who This Book Is For Front or back end Mac developers familiar with JavaScript and interested in utilizing the MEAN stack to deploy successful apps on all devices. Unlock the power of the MEAN stack by creating attractive and real-world projects About This Book Learn about the different components that comprise a MEAN application to construct a fully functional MEAN application using the best third-party modules A step-by-step guide to developing the MEAN stack components from scratch to achieve maximum flexibility when building an e-commerce application Build optimum end-to-end web applications using the MEAN stack Who This Book Is For This learning path is for web developers who are experienced in developing applications using JavaScript. This course is for developers who are interested in learning how to build modern and multiple web applications using MongoDB, Express, AngularJS, and Node.js. What You Will Learn Build modern, end-to-end web applications by employing the full-stack web development solution of MEAN Connect your Express application to MongoDB and use a Mongoose model and build a complex application from start to finish in MongoDB Employ AngularJS to build responsive UI components Implement multiple authentication strategies such as OAuth, JsonWebToken, and Sessions Enhance your website's usability with social logins such as Facebook, Twitter, and Google Secure your app by creating SSL certificates and run payment platforms in a live environment Implement a chat application from scratch using Socket.IO Create distributed applications

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and use the power of server-side rendering in your applications. Extend a project with a real-time bidding system using WebSockets. In Detail The MEAN stack is a collection of the most popular modern tools for web development. This course will help you to build a custom e-commerce app along with several other applications. You will progress to creating several applications with MEAN. The first module in this course will provide you with the skills you need to successfully create, maintain, and test a MEAN application. Starting with MEAN core frameworks, this course will explain each framework key concepts of MongoDB, Express, AngularJS, and Node.js. We will walk through the different tools and frameworks that will help expedite your daily development cycles. After this, the next module will show you how to create your own e-commerce application using the MEAN stack. It takes you step by step through the parallel process of learning and building to develop a production-ready, high-quality e-commerce site from scratch. It also shows you how to manage user authentication and authorization, check multiple payment platforms, add a product search and navigation feature, deploy a production-ready e-commerce site, and finally add your own high-quality feature to the site. The final step in this course will enable you to build a better foundation for your AngularJS apps. You'll learn how to build complex real-life applications with the MEAN stack and a few more advanced projects. You will become familiar with WebSockets, build real-time web applications, create auto-destructing entities, and see how to work with monetary data in Mongo. You will also

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find out how to a build real-time e-commerce application. This learning path combines some of the best that Packt has to offer in one complete, curated package. It includes content from the following Packt products:

- MEAN Web Development by Amos Haviv
- Building an E-Commerce Application with MEAN by Adrian Mejia
- MEAN Blueprints by Robert Onodi

Style and approach
This course will begin with the introduction to MEAN, gradually progressing with building applications in each framework. Each transition is well explained, and each chapter begins with the required background knowledge. Unlock the powers of functional programming hidden within JavaScript to build smarter, cleaner, and more reliable web apps

About This Book
Write powerful code with the high-level functions that JavaScript offers

Discover what functional programming is, why it's effective, and how it's used in JavaScript

Understand and optimize JavaScript's hidden potential as a true functional language

Who This Book Is For
If you are a JavaScript developer interested in learning functional programming, looking for the quantum leap toward mastering the JavaScript language, or just want to become a better programmer in general, then this book is ideal for you. This guide is aimed at programmers, involved in developing reactive frontend apps, server-side apps that wrangle with reliability and concurrency, and everything in between.

What You Will Learn
Get a run through of the basic JavaScript language constructs

Code using the powerful object-oriented feature in JavaScript

Master DOM manipulation, cross-browser strategies, and ES6

Understand the basic concurrency

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constructs in Javascript and best performance strategies
Harness the power of patterns for tasks ranging from application building to code testing Build large-scale apps seamlessly with the help of reactive patterns
Explore advanced design patterns, including dependency injection Develop more powerful applications with currying and function composition
Create more reliable code with closures and immutable data In Detail JavaScript is a high-level, dynamic, untyped, lightweight, and interpreted programming language and functional programming is a style that emphasizes and enables smarter code that minimizes complexity and increases modularity. It's a way of writing cleaner code through clever ways of mutating, combining, and using functions. And JavaScript provides an excellent medium for this approach. By learning how to expose JavaScript's true identity as a functional language, we can implement web apps that are more powerful, easier to maintain and more reliable. The javascript: Functional Programming for JavaScript Developers course will take you on a journey to show how functional programming when combined with other techniques makes JavaScript programming more efficient. The first module Mastering JavaScript, stress on practical aspects of Javascript development like—Functions and Closures, Runtime debugging techniques, project layout, events and DOM processing, build tools, Object-oriented patterns, isomorphism—everything that a modern Javascript project would need. The second module, Mastering JavaScript Design Patterns - Second Edition, will explore

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how design patterns can help you improve and organize your JavaScript code. You'll get to grips with creational, structural, and behavioral patterns as you discover how to put them to work in different scenarios. This updated edition will also delve into reactive design patterns and microservices as they are a growing phenomenon in the world of web development. It will also show you some advanced patterns, including dependency injection and live post processing. The third module, Functional Programming in JavaScript, will help you to write real-world applications by utilizing a wide range of functional techniques and styles. It explores the core concepts of functional programming common to all functional languages, with examples of their use in JavaScript.

Style and approach This course will begin with providing insights and practical tips on advanced JavaScript features to build highly scalable web and mobile system and move on to some design patterns with JavaScript. Finally, the course ends with presenting the functional programming techniques and styles in JavaScript. Learn how to build dynamic web applications with Express, a key component of the Node/JavaScript development stack. In this hands-on guide, author Ethan Brown teaches you the fundamentals through the development of a fictional application that exposes a public website and a RESTful API. You'll also learn web architecture best practices to help you build single-page, multi-page, and hybrid web apps with Express. Express strikes a balance between a robust framework and no framework at all, allowing you a free hand in your architecture choices. With this book, frontend and

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backend engineers familiar with JavaScript will discover new ways of looking at web development. Create webpage templating system for rendering dynamic data Dive into request and response objects, middleware, and URL routing Simulate a production environment for testing and development Focus on persistence with document databases, particularly MongoDB Make your resources available to other programs with RESTful APIs Build secure apps with authentication, authorization, and HTTPS Integrate with social media, geolocation, and other third-party services Implement a plan for launching and maintaining your app Learn critical debugging skills This book covers Express 4.0.

JavaScript Programmer's Reference is an invaluable resource that won't stray far from your desktop (or your tablet!). It contains detailed information on every JavaScript object and command, and combines that reference with practical examples showcasing how you can use those commands in the real world. Whether you're just checking the syntax of a method or you're starting out on the road to JavaScript mastery, the JavaScript Programmer's Reference will be an essential aid. With a detailed and informative tutorial section giving you the ins and outs of programming with JavaScript and the DOM followed by a command-by-command reference, your next project will pop with interactivity and keep your audience coming back for more. JavaScript Programmer's Reference is your one-stop source for everything you'll need to know to become a cutting edge web developer using the latest tools and techniques available today. In depth explanations and activities to

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explain not just the command in question, but why it is used in that way Progressive learning curve to not overwhelm and confuse you Handy and extremely informative quick-reference of every command within the JavaScript & DOM specifications

Develop an end-to-end, real-time e-commerce

application using the MEAN stack

• Build all the main components of an e-commerce website and

extend its high-quality features as per your needs

• Get to grips with the full-stack JavaScript to build attractive e-commerce sites and start making money

• A step-by-step guide to developing the MEAN stack components from

scratch to achieve maximum flexibility when building an

e-commerce application

Who This Book Is For This book is for a web or full stack JavaScript developer who wants

to get a head start on developing an e-commerce

application with MEAN. A basic knowledge of the MEAN

stack is highly recommended.

What You Will Learn

• Employ AngularJS to build responsive UI components

• Implement multiple authentication strategies such as

OAuth, JsonWebToken, and Sessions

• Enhance website usability with social logins such as Facebook,

Twitter, and Google

• Create integrations with payment

platforms such as PayPal

• Apply full-text search

functionality in MongoDB

• Build a flexible categorization

system to organize your products

• Secure your app by creating SSL certificates and run payment platforms in a

live environment

In Detail MEAN stands for MongoDB, Express, AngularJS, and Node.js. It is a combination of a

NoSQL database, MongoDB, with a couple of JavaScript web application frameworks, namely Express.js and

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Angular.js. These run on Node.js. There is always an ever-growing list of requirements while designing an e-commerce application, which needs to be flexible enough for easy adaptation. The MEAN stack allows you to meet those requirements on time and build responsive applications using JavaScript. This book will show you how to create your own e-commerce application using the MEAN stack. It will take you step by step through the parallel process of learning and building. It will also teach you to develop a production-ready, high-quality e-commerce site from scratch and will provide the knowledge you need to extend your own features to the e-commerce site. This book starts with a short introduction to the MEAN stack, followed by a step-by-step guide on how to build a store with AngularJS, set up a database with MongoDB, create a REST API, and wire AngularJS. It also shows you how to manage user authentication and authorization, check multiple payment platforms, add products' search and navigation, deploy a production-ready e-commerce site, and finally add your own high-quality feature to the site. By the end of the book, you will be able to build and use your own e-commerce app in the real world and will also be able to add your own new features to it. Style and approach This book is a step-by-step guide on how to build a real-time e-commerce app with MEAN. Each transition is well explained, and each chapter begins with the required background knowledge.

Pro JavaScript Development is a practical guide for front-end web developers who are experienced at building web pages with HTML, CSS, and JavaScript, and now

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wish to advance their JavaScript skills to a higher level. You will learn how to build large, well-structured, high quality, mobile-optimized web sites and apps, using the latest supported browser APIs, language features, and tools. This book teaches and shows you in practical hands-on terms how you can: Master the performance, reliability, stability, and code manageability of your JavaScript Understand and write efficient object-oriented and prototypal code, including full understanding of the 'this' keyword Boost the performance of your JavaScript code Architect large web applications using common design patterns Write high quality JavaScript code and avoid the pitfalls most likely to cause errors Manage code dependencies with AMD and RequireJS Develop for mobile, build games, and set up a real-time video chat using modern APIs such as Geolocation, Canvas and WebRTC Document your code as the professionals do Write command-line and web server applications in JavaScript with Node.js, Use build tools, such as Grunt and Gulp, to automate repetitive tasks and improve your development workflow Using real-world examples and applications that you'll build yourself, Pro JavaScript Development has unique, practical content that will make you a better JavaScript developer. Become a master of the latest JavaScript coding techniques and tools, and harness its best capabilities today.

Takes you through creating your own API, building a full real-time web app, securing your Node systems, and practical applications of the latest Async and Await technologies. It maps out everything in a comprehensive, easy-to-follow package designed to get you up and

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running quickly. Key Features Entirely project-based and practical Explains the "why" of Node.js features, not just the "how", providing with a deep understanding and enabling you to easily apply concepts in your own applications Covers the full range of technologies around Node.js – npm, MongoDB, version control with Git, and many more Book Description Advanced Node.js Development is a practical, project-based book that provides you with all you need to progress as a Node.js developer. Node is a ubiquitous technology on the modern web, and an essential part of any web developer's toolkit. If you're looking to create real-world Node applications, or you want to switch careers or launch a side-project to generate some extra income, then you're in the right place. This book was written around a single goal: turning you into a professional Node developer capable of developing, testing, and deploying real-world production applications. There's no better time to dive in. According to the 2018 Stack Overflow Survey, Node is in the top ten for back-end popularity and back-end salary. This book is built from the ground up around the latest version of Node.js (version 9.x.x). You'll be learning all the cutting-edge features available only in the latest software versions. This book delivers advanced skills that you need to become a professional Node developer. Along this journey you'll create your own API, you'll build a full real-time web app and create projects that apply the latest Async and Await technologies. Andrew Mead maps everything out for you in this book so that you can learn how to build powerful Node.js projects in a

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comprehensive, easy-to-follow package designed to get you up and running quickly. What you will learn Develop, test, and deploy real-world Node.js applications Master Node.js by building practical, working examples Use awesome third-party Node modules such as MongoDB, Mongoose, Socket.io, and Express Create real-time web applications Explore async and await in ES7 Who this book is for This book is for anyone looking to launch their own Node applications, switch careers, or freelance as a Node developer. You should have a basic understanding of JavaScript in order to follow this book. This book follows directly on from Learning Node.js Development, but more advanced readers can benefit from this book without having read the first part.

Get a practical introduction to React Native, the JavaScript framework for writing and deploying fully featured mobile apps that render natively. The second edition of this hands-on guide shows you how to build applications that target iOS, Android, and other mobile platforms instead of browsers—apps that can access platform features such as the camera, user location, and local storage. Through code examples and step-by-step instructions, web developers and frontend engineers familiar with React will learn how to build and style interfaces, use mobile components, and debug and deploy apps. You'll learn how to extend React Native using third-party libraries or your own Java and Objective-C libraries. Understand how React Native works under the hood with native UI components Examine how React Native's mobile-based components compare to basic HTML elements Create and style your own React Native

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components and applications Take advantage of platform-specific APIs, as well as modules from the framework's community Incorporate platform-specific components into cross-platform apps Learn common pitfalls of React Native development, and tools for dealing with them Combine a large application's many screens into a cohesive UX Handle state management in a large app with the Redux library

Traditionally, web applications have been architected so that the back-end houses all the front-end code. This has resulted in heavy projects that are difficult to manage and scale. This book will explain a new way to write web applications by treating the front-end as if it were a third-party (such as a mobile client). This book, written by a practicing MEAN developer, will take a holistic approach to using the MEAN JavaScript platform for creating modern web applications and lay out how to use the MEAN (Mongo, Express, AngularJS, and Node.js) set of tools to create a web application, from installation and setup of the tools to debugging and deploying your app. After an introduction to how web development is changing and the advantages of using the MEAN stack, the author jumps into an introduction to each tool and then dives into using the complete JavaScript-based application stack to build, test, and deploy apps.

An in-depth guide to exploring the design, architecture, and techniques behind building sophisticated, scalable, and maintainable single-page applications in JavaScript About This Book Build large-scale, feature-complete SPAs by leveraging widely used tools and techniques. Gain a solid understanding of architecture and SPA

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design to build applications using the library or framework of your choice. Explore the various facets of SPA development to build web apps that are fast, scalable, and easy to test. Who This Book Is For This book is ideal for JavaScript developers who want to build complex single-page applications in JavaScript. Some basic understanding of SPA concepts will be helpful but not essential. What You Will Learn Organize your development environment using the command line with NPM, Bower, and Grunt. Choose an accurate design pattern for your app Understand modular JavaScript programming and Node.js Interact with a REST API using JavaScript and AJAX with practical examples Build a single page application using the MEAN stack Connect your app across popular social media platforms such as Facebook, Twitter, and LinkedIn Test your app, both on the server side and in views Prepare your app for the real world and deploy it to Heroku In Detail Single-page web applications—or SPAs, as they are commonly referred to—are quickly becoming the de facto standard for web app development. The fact that a major part of the app runs inside a single web page makes it very interesting and appealing. Also, the accelerated growth of browser capabilities is pushing us closer to the day when all apps will run entirely in the browser. This book will take your JavaScript development skills to the next level by teaching you to create a single-page application within a full-stack JavaScript environment. Using only JavaScript, you can go from being a front-end developer to a full-stack application developer with relative ease. You will learn to cross the boundary from front-end

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development to server-side development through the use of JavaScript on both ends. Use your existing knowledge of JavaScript by learning to manage a JSON document data store with MongoDB, writing a JavaScript powered REST API with Node.js and Express, and designing a front-end powered by AngularJS. This book will teach you to leverage the MEAN stack to do everything from document database design, routing REST web API requests, data-binding within views, and adding authentication and security to building a full-fledged, complex, single-page web application. In addition to building a full-stack JavaScript app, you will learn to test it with JavaScript-powered testing tools such as Mocha, Karma, and Jasmine. Finally, you will learn about deployment and scaling so that you can launch your own apps into the real world. Style and approach Following a structured approach, this book helps readers gain expertise in SPA development. Its thorough coverage of SPA architecture and design, along with practical use cases, provides readers with a clear path to building applications with the library of their choice. For readers who are afraid to take the plunge straightaway, the book also offers step-by-step guidance on developing a complex web app.

Take your JavaScript knowledge as far as it can go JavaScript has grown up, and it's a hot topic. Newer and faster JavaScript VMs and frameworks built upon them have increased the popularity of JavaScript for server-side web applications, and richJS applications are being developed for mobile devices. This book delivers a compelling tutorial, showing you how to build a real-world

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app from the ground up. Experienced developers who want to master the latest techniques and redefine their skills will find this deep dive into JavaScript's hidden functionalities gives them the tools to create truly amazing and complex applications. JavaScript has evolved into much more than simple client-side scripting; this book delves into advanced topics not generally found in other more intermediate JS development books. Expert author delivers an in-depth tutorial showing how to build a real-world app that is loosely coupled, with each component built to exist separately. Explores how to build a backbone app, the importance of JavaScript templates, Node.js and MongoDB, 3D Canvas using WebGL / Three.js, how to convert a desktop app into a dedicated mobile app, and much more. Ideal for experienced developers with a deep knowledge of JavaScript as well as online developers with strong graphic design skills who are experienced in HTML/CSS and want to develop their front-end skills. JavaScript Programming: Pushing the Limits will arm you with the skills to create killer apps for the 21st Century.

Looks at the principles and clean code, includes case studies showcasing the practices of writing clean code, and contains a list of heuristics and "smells" accumulated from the process of writing clean code. Completely revised and updated, this best-selling introduction to programming in JavaScript focuses on writing real applications. JavaScript lies at the heart of almost every modern web application, from social apps like Twitter to browser-based game frameworks like Phaser and Babylon. Though simple for beginners to

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pick up and play with, JavaScript is a flexible, complex language that you can use to build full-scale applications. This much anticipated and thoroughly revised third edition of Eloquent JavaScript dives deep into the JavaScript language to show you how to write beautiful, effective code. It has been updated to reflect the current state of JavaScript and web browsers and includes brand-new material on features like class notation, arrow functions, iterators, async functions, template strings, and block scope. A host of new exercises have also been added to test your skills and keep you on track. As with previous editions, Haverbeke continues to teach through extensive examples and immerses you in code from the start, while exercises and full-chapter projects give you hands-on experience with writing your own programs. You start by learning the basic structure of the JavaScript language as well as control structures, functions, and data structures to help you write basic programs. Then you'll learn about error handling and bug fixing, modularity, and asynchronous programming before moving on to web browsers and how JavaScript is used to program them. As you build projects such as an artificial life simulation, a simple programming language, and a paint program, you'll learn how to:

- Understand the essential elements of programming, including syntax, control, and data
- Organize and clarify your code with object-oriented and functional programming techniques
- Script the browser and make basic web applications
- Use the DOM effectively to interact with browsers
- Harness Node.js to build servers and utilities

Isn't it time you became fluent in the language of the Web? * All

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source code is available online in an interactive sandbox, where you can edit the code, run it, and see its output instantly.

Summary Getting MEAN, Second Edition teaches you how to develop full-stack web applications using the MEAN stack. This edition was completely revised and updated to cover MongoDB 4, Express 4, Angular 7, Node 11, and the latest mainstream release of JavaScript ES2015. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology Juggling languages mid-application can radically slow down a full-stack web project. The MEAN stack—MongoDB, Express, Angular, and Node—uses JavaScript end to end, maximizing developer productivity and minimizing context switching. And you'll love the results! MEAN apps are fast, powerful, and beautiful. About the Book Getting MEAN, Second Edition teaches you how to develop full-stack web applications using the MEAN stack. Practical from the very beginning, the book helps you create a static site in Express and Node. Expanding on that solid foundation, you'll integrate a MongoDB database, build an API, and add an authentication system. Along the way, you'll get countless pro tips for building dynamic and responsive data-driven web applications! What's inside MongoDB 4, Express 4, Angular 7, and Node.js 11 MEAN stack architecture Mobile-ready web apps Best practices for efficiency and reusability About the Reader Readers should be comfortable with standard web application designs and ES2015-style JavaScript. About the Author Simon

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Holmes and Clive Harber are full-stack developers with decades of experience in JavaScript and other leading-edge web technologies. Table of Contents PART 1 - SETTING THE BASELINE Introducing full-stack development Designing a MEAN stack architecture PART 2 - BUILDING A NODE WEB APPLICATION Creating and setting up a MEAN project Building a static site with Node and Express Building a data model with MongoDB and Mongoose Writing a REST API: Exposing the MongoDB database to the application Consuming a REST API: Using an API from inside Express PART 3 - ADDING A DYNAMIC FRONT END WITH ANGULAR Creating an Angular application with TypeScript Building a single-page application with Angular: Foundations Building a single-page application with Angular: The next level PART 4 - MANAGING AUTHENTICATION AND USER SESSIONS Authenticating users, managing sessions, and securing APIs Using an authentication API in Angular applications

Node.js, MongoDB and Angular Web Development The definitive guide to using the MEAN stack to build web applications Node.js is a leading server-side programming environment, MongoDB is the most popular NoSQL database, and Angular is the leading framework for MVC-based front-end development. Together, they provide an easy-to-implement, fully integrated web development stack that allows web programmers to create high-performance sites and applications built completely in JavaScript, from server to client. Updated for Angular 2, Angular 4, and subsequent versions, this new edition of Node.js, MongoDB and

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Angular Web Development shows you how to integrate these three technologies into complete working solutions. It begins with concise, crystal-clear tutorials on each technology and then quickly moves on to building common web applications. You'll learn how to use Node.js and MongoDB to build more scalable, high-performance sites, how to leverage Angular's innovative MVC approach to structure more effective pages and applications, and how to use all three together to deliver outstanding next-generation Web solutions. Implement a highly scalable and dynamic web server using Node.js and Express Implement a MongoDB data store for your web applications Access and interact with MongoDB from Node.js JavaScript code Learn the basics of TypeScript Define custom Angular directives that extend the HTML language Build server-side web services in JavaScript Implement client-side services that can interact with the Node.js web server Build dynamic browser views that provide rich user interaction Add authenticated user accounts and nested comment components to your web applications and pages

Contents at a Glance Part I: Getting Started 1 Introducing the Node.js-to-Angular Stack 2 JavaScript Primer Part II: Learning Node.js 3 Getting Started with Node.js 4 Using Events, Listeners, Timers, and Callbacks in Node.js 5 Handling Data I/O in Node.js 6 Accessing the File System from Node.js 7 Implementing HTTP Services in Node.js 8 Implementing Socket Services in Node.js 9 Scaling Applications Using Multiple Processors in Node.js 10 Using Additional Node.js Modules Part III: Learning MongoDB 11 Understanding

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JavaScript, and each different version of JavaScript, interacts differently with each variety of Web browser, leaving Web developers scrambling to write code that will work in all the major browsers. "JavaScript Developer's Dictionary" brings all these variants into one volume, breaking down every object in the JavaScript language and how it applies to each browser.

Angular is not just a framework, but rather a platform that empowers developers to build applications for the web, mobile, and the desktop. This book presents a collection of complete project tutorials: building a bucket-list MEAN stack app; user authentication with MEAN; building a Twitter client with Node and Angular; and connecting Angular and the WordPress API. Along the way, you'll learn how to use Angular and some of its best features. This book is for all front-end developers who want to get

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proficient with Angular and its related tools. You'll need to be familiar with HTML and CSS and have a reasonable level of understanding of JavaScript in order to follow the discussion.

Most programming languages contain good and bad parts, but JavaScript has more than its share of the bad, having been developed and released in a hurry before it could be refined. This authoritative book scrapes away these bad features to reveal a subset of JavaScript that's more reliable, readable, and maintainable than the language as a whole—a subset you can use to create truly extensible and efficient code. Considered the JavaScript expert by many people in the development community, author Douglas Crockford identifies the abundance of good ideas that make JavaScript an outstanding object-oriented programming language—ideas such as functions, loose typing, dynamic objects, and an expressive object literal notation. Unfortunately, these good ideas are mixed in with bad and downright awful ideas, like a programming model based on global variables. When Java applets failed, JavaScript became the language of the Web by default, making its popularity almost completely independent of its qualities as a programming language. In *JavaScript: The Good Parts*, Crockford finally digs through the steaming pile of good intentions and blunders to give you a detailed look at all the genuinely elegant parts of JavaScript, including: Syntax Objects Functions Inheritance Arrays Regular expressions Methods Style Beautiful features The real beauty? As you move ahead with the subset of JavaScript that this book presents, you'll also sidestep

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the need to unlearn all the bad parts. Of course, if you want to find out more about the bad parts and how to use them badly, simply consult any other JavaScript book. With JavaScript: The Good Parts, you'll discover a beautiful, elegant, lightweight and highly expressive language that lets you create effective code, whether you're managing object libraries or just trying to get Ajax to run fast. If you develop sites or applications for the Web, this book is an absolute must.

Learn everything about utilizing the JavaScript language with the next generation of Rich Internet Applications from the accessible information in JavaScript Programmer's Reference, both a tutorial and a reference guide for web developers. Master methods for using Java with applications like Microsoft's Silverlight, Ajax, Flex, Flash and AIR by practicing with hands-on examples with practical, usable code. Employ this complete JavaScript reference to help you understand JavaScript Data Types, Variables, Operators, Expressions and Statements, work with JavaScript Frameworks and data, and improve performance with Ajax.

The Complete JavaScript DeveloperMEAN Stack Zero-to-hero

Take advantage of JavaScript's power to build robust web-scale or enterprise applications that are easy to extend and maintain. By applying the design patterns outlined in this practical book, experienced JavaScript developers will learn how to write flexible and resilient code that's easier—yes, easier—to work with as your code base grows. JavaScript may be the most essential web

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programming language, but in the real world, JavaScript applications often break when you make changes. With this book, author Eric Elliott shows you how to add client- and server-side features to a large JavaScript application without negatively affecting the rest of your code.

Examine the anatomy of a large-scale JavaScript application
Build modern web apps with the capabilities of desktop applications
Learn best practices for code organization, modularity, and reuse
Separate your application into different layers of responsibility
Build efficient, self-describing hypermedia APIs with Node.js
Test, integrate, and deploy software updates in rapid cycles
Control resource access with user authentication and authorization
Expand your application's reach through internationalization

Over 50 recipes to create full-stack high-performance web applications using pure JavaScript and the MEAN stack.
About This Book Architect a fully functional stand-alone web application, including the web server, database, and front-end web application
Improve the performance and maintainability of your MEAN stack application with tips for configuration and optimization
Highlights MEAN Stack best practices when working with your application
Who This Book Is For If you are a JavaScript developer who wants to create high-performing, modern web applications with the MEAN stack, this is the book for you. Web developers familiar with some parts of the MEAN stack will find this a comprehensive guide to fleshing out the other technologies and skills they need to build all JavaScript web applications. Developers interested in transitioning

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from other web application stacks to an all-JavaScript environment will find a wealth of information about how to work in a MEAN stack environment. To get the most from this book, you should have a general understanding of web servers and web applications. You are expected to have a basic understanding of running JavaScript, both in a web browser and outside it, using Node.js and the NPM package manager. What You Will Learn

- Bootstrap a new MEAN stack web application using Node.js and Express
- Build a single-page application (SPA) with Angular and Angular-CLI
- Improve browser performance by optimizing your web application resources using Webpack
- Model complex JSON object relationships in MongoDB using Mongoose
- Debug all the layers of a MEAN stack application, including working with source maps
- Build Restful APIs using Express.js and JSON Web Token (JWT) for user authentication
- Use automated testing to improve the reliability and quality of your MEAN stack application

In Detail The MEAN Stack is a framework for web application development using JavaScript-based technologies; MongoDB, Express, Angular, and Node.js. If you want to expand your understanding of using JavaScript to produce a fully functional standalone web application, including the web server, user interface, and database, then this book can help guide you through that transition. This book begins by configuring the frontend of the MEAN stack web application using the Angular JavaScript framework. We then implement common user interface enhancements before moving on to configuring the server layer of our MEAN stack web application using Express for our

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backend APIs. You will learn to configure the database layer of your MEAN stack web application using MongoDB and the Mongoose framework, including modeling relationships between documents. You will explore advanced topics such as optimizing your web application using WebPack as well as the use of automated testing with the Mocha and Chai frameworks. By the end of the book, you should have acquired a level of proficiency that allows you to confidently build a full production-ready and scalable MEAN stack application. Style and Approach This book is a guide of MEAN Stack specific solutions to common web application problems and includes in-depth guides for each layer of the application stack. Readers looking to upgrade their MEAN Stack web application will find recipes within to help them transition.

Sams Teach Yourself HTML, CSS and JavaScript All in One The all-in-one HTML, CSS and JavaScript beginner's guide: covering the three most important languages for web development. Covers everything beginners need to know about the HTML and CSS standards and today's JavaScript and Ajax libraries - all in one book, for the first time Integrated, well-organized coverage expertly shows how to use all these key technologies together Short, simple lessons teach hands-on skills readers can apply immediately By best-selling author Julie Meloni Mastering HTML, CSS, and JavaScript is vital for any beginning web developer - and the importance of these technologies is growing as web

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development moves away from proprietary alternatives such as Flash. Sams Teach Yourself HTML, CSS, and JavaScript All in One brings together everything beginners need to build powerful web applications with the HTML and CSS standards and the latest JavaScript and Ajax libraries. With this book, beginners can get all the modern web development knowledge you need from one expert source. Bestselling author Julie Meloni (Sams Teach Yourself PHP, MySQL and Apache All in One) teaches simply and clearly, through brief, hands-on lessons focused on knowledge you can apply immediately. Meloni covers all the building blocks of practical web design and development, integrating new techniques and features into every chapter. Each lesson builds on what's come before, showing you exactly how to use HTML, CSS, and JavaScript together to create great web sites.

While there have been quite a few attempts to get JavaScript working as a server-side language, Node.js (frequently just called Node) has been the first environment that's gained any traction. It's now used by companies such as Netflix, Uber and Paypal to power their web apps. Node allows for blazingly fast performance; thanks to its event loop model, common tasks like network connection and database I/O can be executed very quickly indeed. From a beginner's point of view, one of Node's obvious advantages is that it uses JavaScript, a ubiquitous

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language that many developers are comfortable with. If you can write JavaScript for the client-side, writing server-side applications with Node should not be too much of a stretch for you. In this book, we'll offer a beginner's introduction to Node and its related technologies, and get you under way writing your first Node applications. It contains: What Is Node and When Should I Use It? by James Hibbard A Beginner Splurge in Node.js by Camilo Reyes and Michiel Mulders A Beginner's Guide to npm- the Node Package Manager by Michael Wanyoike and Peter Dierx Forms, File Uploads and Security with Node.js and Express by Mark Brown MEAN Stack: Build an App with Angular 2+ and the Angular CLI by Manjunath M Debugging JavaScript with the Node Debugger by Camilo Reyes Using MySQL with Node.js and the mysql JavaScript Client by Jay Raj How to Use SSL/TLS with Node.js by Florian Rappl and Almir Bijedic This book is for anyone who wants to start learning server-side development with Node.js. Familiarity with JavaScript is assumed, but we don't assume any previous back-end development experience.

With modern tools. it is possible to create a production grade, full-stack application using HTML, CSS, and JavaScript alone. The combination of MongoDB, Express, AngularJS, and Node.js has become so popular that it has earned the title MEAN stack -- the subject of this book. This book explores

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the MEAN stack in detail. We will begin by covering Node.js, as it will lay the groundwork for all of our server-side work. You will learn how to get Node running on your local machine as well as download modules using npm. The key aspects of the Node.js programming model will also be covered. From there, we will move on to MongoDB, where you'll learn how to interact with Mongo from a Node application. You will also learn how to create, retrieve, update, and delete data from a Mongo store. After you have a solid grasp on Node and Mongo, the book will move on to the Express web server. We'll cover the basics of Express applications via topics like routes and middleware. Building on previous chapters, we will cover the integration of Node, Mongo, and Express. Our coverage of the MEAN stack will wrap up with several chapters on AngularJS. These chapters will cover Angular fundamentals like data binding, directives, controllers, routing, and services. In an effort to explore competing technologies, a slight introduction to Ember.js will also be provided. Full stack JavaScript is not fully encompassed by the MEAN stack. There is an entire ecosystem of JavaScript tools to learn about, and this book will introduce a few of them. We will cover task runners Gulp.js and Grunt.js which are extremely useful for automating mundane, repetitive tasks. We'll also cover JSHint, a linting tool used to improve code

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quality. Linting tools analyze source code and report potential issues - a feature that is especially useful in non-compiled languages like JavaScript.

If you are a web or a full-stack JavaScript developer who is interested in learning how to build modern web applications using the MEAN stack, this book is for you.

"Learn all of the different aspects of full stack JavaScript development using the MEAN stack. We're not talking about any generators or MEAN frameworks here, we're talking about a full understanding of MongoDB, Express, AngularJS and Node.js. Throughout this course we'll show you how to use each of these technologies, and how to use them together. Build Great JavaScript Applications using MongoDB, Express, AngularJS 1.x and Node.js. The overall aim of the course is to enable you confidently build all different types of application using the MEAN stack. To do this, the course is divided into four sections, each section focusing on a different goal. The four sections all work together building a full application, with an overall outcome of showing how to architect and build complete MEAN applications."--Resource description page.

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