

Practical Web Development

Learn how to advance your skill level of Haskell, and use this language for practical web development. This book uses a direct, no nonsense approach, so you no longer need to spend extra time reading the documentation, blog posts, and forums to understand how to use Haskell – all that knowledge is provided in one coherent resource. You'll start by reviewing how multiple facets of web development are done in Haskell, such as routing, building HTMLs, interacting with databases, caches, and queues, etc. You'll then move on to using notable libraries, such as "scotty" for routings, "digestive-functor" for input validation, and "postgresql-simple" for interacting with databases. In the later chapters, you'll learn how all of these libraries can be used together by working on a fully functioning project deployed on Heroku.

What You'll Learn

- Set up a productive Haskell development environment
- Review basic tasks that are encountered when building web applications. Explore how to interact with external systems, such as databases, queues, and RESTful APIs.
- Build a RESTful API, website, building views and form validation.

Who This Book Is For

Software developers familiar Haskell and would like to apply the knowledge on real world applications and software developers new to Haskell.

"How to Get a Job in Web Development" is designed for junior web developers. Whether you're coming from a coding bootcamp, are completely self-taught, or graduated from college with a tech-related degree, this book is for you.

Written by RealToughCandy. In this book, you will learn how to:

- Expertly craft the 'holy clover' of application materials: your resume, cover letter, GitHub page, and portfolio.
- Leverage the power of LinkedIn, Meetups, and social media.
- Handle follow-up emails and phone calls.
- Prepare for the

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multiple types of interviews you will encounter, whether via phone, video conference, or in person. • Strategically apply to jobs so you can maximize your salary demands during negotiation. • Efficiently organize and prioritize the jobs you've applied to. • Craft results-driven email check-ins with your potential employer. • Reduce your vulnerabilities for discrimination. • And much, much more! No awkward whiteboard interviews. No hour-long explanation of Big O notation. Just practical, actionable steps that will put you far ahead of the pack when it comes to getting a job in web development. Now let's go get that job! "Just finished reading your book and all I can say is WOW! Mind you since May of 2016 I have taken about 6 online courses specifically looking for employment and around three of them were specifically for either how to get an IT or Web Developer job. These courses cannot hold a candle to the majority of the information you put in this book!" -George M., Web Developer

WHY I WROTE THIS BOOK: When I started my web development journey, I was a lost hiker in the digital woods. I knew I wanted to build web apps, but didn't know what those people called themselves. Were they website builders? Programmers? The term 'software engineer' floated around a lot online – was that my aspiration? Since I didn't know exactly what I was looking for, I spent a lot of time reading and watching materials that were nothing but discouraging: mock Google coding interviews with whiteboards and markers. Lots of articles and videos that name-dropped things like binary trees, Big O notation, and time complexity. Forum post upon forum post that gave away actual coding interview questions from the biggest tech companies in the world like Facebook, Google, and Microsoft. Making things worse, some web developers I had discovered on YouTube were talking about a really good, popular book for coding interviews. I checked it out and once again my stomach sank. "I'm never going to

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make it in this field,” I said to myself. “I’ve been studying and practicing and building projects for months, and I still have no idea what these people are talking about.” What they didn’t tell me was that the book is geared towards senior software engineers trying to get a job with Amazon and Google. I wanted to quit my coding journey. In fact, I did quit. The difference was, I didn’t stay quit. Something told me to keep pushing forward, keep building projects to put in my portfolio and Github, keep reaching out and trying to find clients who needed websites. I kept pushing until I got a job as a fullstack web developer at a data company. As it turns out, the internet isn’t very generous to our career field. Beginners are especially marginalized. There aren’t any quality one-stop resources for discovering one of the most important questions – if not the most important question – web developers have. “How do I get a job in this field?” I wanted to change the junior web developer tech landscape with this book. My goal is for every junior developer who reads this to find a job. And if you take the recommended actions in this book, you can do it.

Create real-time server-side applications with this practical, step-by-step guide
About This Book Learn about server-side JavaScript with Node.js and Node modules through the most up-to-date book on Node.js web development
Understand website development both with and without the Connect/Express web application framework
Develop both HTTP server and client applications
Who This Book Is For This book is for anybody looking for an alternative to the "P" languages (Perl, PHP, and Python), or anyone looking for a new paradigm of server-side application development. You should have at least a rudimentary understanding of JavaScript and web application development.
What You Will Learn Install and use Node.js for both development and deployment
Use the Express application framework
Configure

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Bootstrap for mobile-first theming Use data storage engines such as MySQL, SQLITE3, and MongoDB Understand user authentication methods, including OAuth, with third-party services Deploy Node.js to live servers, including microservice development with Docker Perform unit testing with Mocha Perform functional testing of the web application with CasperJS In Detail Node.js is a server-side JavaScript platform using an event driven, non-blocking I/O model allowing users to build fast and scalable data-intensive applications running in real time. Node.js Web Development shows JavaScript is not just for browser-side applications. It can be used for server-side web application development, real-time applications, microservices, and much more. This book gives you an excellent starting point, bringing you straight to the heart of developing web applications with Node.js. You will progress from a rudimentary knowledge of JavaScript and server-side development to being able to create and maintain your own Node.js application. With this book you'll learn how to use the HTTP Server and Client objects, data storage with both SQL and MongoDB databases, real-time applications with Socket.IO, mobile-first theming with Bootstrap, microservice deployment with Docker, authenticating against third-party services using OAuth, and much more. Style and Approach This book is a practical guide for anyone looking to develop striking and robust web applications using Node.js.

Are you interested in going back to the basics? Do you want to learn how to develop web pages the old way? Then welcome to this guide. In the same way that a building can only be as strong as its foundation, a webpage can only be as good as the bits and pieces that hold it together. In this case, we're talking about HTML. Hyper Text Markup Language, HTML is the glue that ensures a web page is held together and can be used on many different browsers and devices

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successfully. It also provides the structure needed to expand your webpages using JavaScript and CSS. This guide focuses purely on HTML, and here's what you can expect to learn:

- What HTML is and how it works
- How to use an HTML text editor
- The HTML building blocks - attributes, elements, and tags
- How to format your HTML
- How to use heading, paragraph, and phrase tags
- How to insert links, images, and tables
- What HTML lists are
- Using HTML classes, frames, and iFrames
- Html Comments and File Paths
- What's in the HTML head
- Techniques for layout and design
- How to use the HTML entities, charset, and symbols
- How to add HTML

backgrounds, colors, and fonts

-How to create a webpage from start to finish

And much more!

HTML is the backbone of any website, and it makes perfect sense to learn how to code in HTML before you try anything fancier. If you are ready to start your new coding journey, hit the Buy Now button!

Today, developers are increasingly adopting Clojure as a web-development platform. See for yourself what makes Clojure so desirable, as you create a series of web apps of growing complexity, exploring the full process of web development using a modern functional language. This fully updated third edition reveals the changes in the rapidly evolving Clojure ecosystem and provides a practical, complete walkthrough of the Clojure web-stack. Stop developing web apps with yesterday's tools. Today, developers are increasingly adopting Clojure as a web-development platform. See for yourself what makes Clojure so desirable, as you work hands-on with Clojure and build a series of web apps of increasing size and scope, culminating in a professional grade web app using all the techniques you've learned along the way. This fully updated third edition will get you up to speed on the changes in the rapidly evolving Clojure ecosystem - the many new libraries, tools, and best practices. Build a fully featured SPA app with re-frame, a popular front-end framework for

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ClojureScript supporting a functional style MVC approach for managing the UI state in Single-Page Application-style applications. Gain expertise in the powerful Ring stack using the Luminus framework. Learn how Clojure works with databases and speeds development of RESTful services. See why ClojureScript is rapidly becoming a popular front-end platform, and use ClojureScript with the popular re-frame library to build single-page applications. Whether you're already familiar with Clojure or completely new to the language, you'll be able to write web applications with Clojure at a professional level.

Practical PHP and MySQL Website Databases is a project-oriented book that demystifies building interactive, database-driven websites. The focus is on getting you up and running as quickly as possible. In the first two chapters you will set up your development and testing environment, and then build your first PHP and MySQL database-driven website. You will then increase its sophistication, security, and functionality throughout the course of the book. The PHP required is taught in context within each project so you can quickly learn how PHP integrates with MySQL to create powerful database-driven websites. Each project is fully illustrated, so you will see clearly what you are building as you create your own database-driven website. You will build a form for registering users, and then build an interface so that an administrator can view and administer the user database. You will create a message board for users and a method for emailing them. You will also learn the best practices for ensuring that your website databases are secure. Later chapters describe how to create a blog, a product catalog, and a simple e-commerce site. You will also discover how to migrate a database to a remote host. Because you are building the interactive pages yourself, you will know exactly how the MySQL and PHP work, and you will be able to add database interactivity to

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your own websites with ease.

If you're looking for an alternative to the "P" languages (Perl, PHP, and Python), or want to explore a new paradigm of server-side application development, this Node book is for you. You should have at least a rudimentary understanding of JavaScript and web application development.

Aimed at those who want to overcome the limitations of CSS, through this book you will begin to harness the efficiency of Less by building advanced, responsive, and modern websites. Experienced web developers, students, and even web designers will find this guide very useful as they enhance their CSS skills.

Web development has grown to become vital in shaping how humans interact, work, learn, and consume.

Practical Web Development provides you with a roadmap of web development today, giving you the tools you need and the guidance to keep you creative and productive in a world of disruption and innovation.

Beginning with the structure of the Web and the principles of building basic websites with HTML, you will learn about CSS, JavaScript, and PHP, before taking a closer look at some of the leading technologies used to build the modern Web. You will integrate jQuery, Ajax, and JSON into your projects before moving on to the latest tools and techniques in responsive web design, including Zurb Foundation or Bootstrap, to help you meet the challenges of developing for multiple devices, and explore how Node.js offers a powerful solution to server-side application development. This book is for anyone that wants to get to grips with the broader picture of web development today.

Become a pro in creating modern interactive web

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applications using this JavaScript framework

Key Features

Explore the exciting features of Vue.js 2 through interesting examples and practical recipes. Craft highly modular applications using design patterns and the component architecture of Vue.js. Learn how to utilize modern development tools by building applications with Vue.js.

Book Description

This Learning Path is divided into three sections, with each section bringing you closer to developing high-end modern web applications with Vue.js 2. It starts with building example applications to get well versed with the Vue.js ecosystem. You will learn to use Vue.js by creating three single page applications that explore Vuex and vue-router, the standard Vue tools for caching data and routing URLs for your applications. Going further, the Learning Path will address some of the challenges in designing web applications with Vue.js. The Learning Path will have easy-to-follow recipes to help you tackle the challenges and craft dynamic front end. You will learn to integrate web utilities like Babel and Webpack to enhance your development workflow. Finally, towards the end, the course will introduce you to several design patterns to help you write clean, maintainable, and reusable codes with Vue framework. At the end of the Learning Path, you will be confident with expertise in leveraging all the components and productivity features of Vue.js and will be on your way to design your web applications and execute it by writing clean code. This Learning Path includes content from the following Packt products: Vue.js 2.x by Example by Mike Street, Vue.js 2 Cookbook by Andrea Passaglia, Vue.js Design Patterns and Best Practices by Paul Halliday.

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What you will learn Understand the fundamentals of Vue.js with practical examples Using vue-router dynamic routes to load data Build complex web interfaces using the Vue.js component system Use Webpack and Babel to enhance your development workflow Manage your application's state using Vuex Seamlessly implement routing in your single page applications Who this book is for The Learning Path is intended for JavaScript developers at any level of expertise who wants to learn Vue.js and develop productive web applications with the power of the latest Vue.js.

Take full creative control of your web applications with Flask, the Python-based microframework. With this hands-on book, you'll learn Flask from the ground up by developing a complete social blogging application step-by-step. Author Miguel Grinberg walks you through the framework's core functionality, and shows you how to extend applications with advanced web techniques such as database migration and web service communication. Rather than impose development guidelines as other frameworks do, Flask leaves the business of extensions up to you. If you have Python experience, this book shows you how to take advantage of that creative freedom. Learn Flask's basic application structure and write an example app Work with must-have components—templates, databases, web forms, and email support Use packages and modules to structure a large application that scales Implement user authentication, roles, and profiles Build a blogging feature by reusing templates, paginating item lists, and working with rich text Use a Flask-based RESTful API to

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expose app functionality to smartphones, tablets, and other third-party clients Learn how to run unit tests and enhance application performance Explore options for deploying your web app to a production server

A step by step guide for beginners to create interactive and dynamic websites from scratch. Key Features A fun-filled book with incrementing projects that would help you learn and adapt the fundamentals of web development Bring your web design to life with the help of HTML, CSS, JQuery, and learn to kick-start your future projects with Bootstrap Explore popular web development techniques such as responsive, adaptive, and material design and initiate yourself with Vue.js Book Description

Web design is the process of creating websites. It encompasses several different aspects, including webpage layout, content production, and graphic design. This book offers you everything you need to know to build your websites. The book starts off by explaining the importance of web design and the basic design components used in website development. It'll show you insider tips to work quickly and efficiently with web technologies such as HTML5, CSS3, and JavaScript, concluding with a project on creating a static site with good layout. Once you've got that locked down, we'll get our hands dirty by diving straight into learning JavaScript and JQuery, ending with a project on creating dynamic content for your website. After getting our basic website up and running with the dynamic functionalities you'll move on to building your own responsive websites using more advanced techniques such as Bootstrap. Later you will learn smart ways to add dynamic content, and

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modern UI techniques such as Adaptive UI and Material Design. This will help you understand important concepts such as server-side rendering and UI components. Finally we take a look at various developer tools to ease your web development process. What you will learn

- Understand the importance of web design and the basic design components
- Learn HTML5 and CSS3
- Difference between adaptive and responsive web design
- Learn how to create your first website
- Add interaction and dynamic content to your website with JavaScript and JQuery
- Implement Bootstrap Framework in your project
- Get familiar with server-side rendering

Who this book is for
This book is for anyone who wants to learn about web development regardless of previous experience. It's perfect for complete beginners with zero experience; it's also great for anyone who does have some experience in a few technologies (such as HTML and CSS) but not all of them.

Practical Web DevelopmentPackt Publishing Ltd

Get a practical, hands-on introduction to the Haskell language, its libraries and environment, and to the functional programming paradigm that is fast growing in importance in the software industry. This book contains excellent coverage of the Haskell ecosystem and supporting tools, include Cabal and Stack for managing projects, HUnit and QuickCheck for software testing, the Spock framework for developing web applications, Persistent and Esqueleto for database access, and parallel and distributed programming libraries. You'll see how functional programming is gathering momentum, allowing you to express yourself in a more concise way,

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reducing boilerplate, and increasing the safety of your code. Haskell is an elegant and noise-free pure functional language with a long history, having a huge number of library contributors and an active community. This makes Haskell the best tool for both learning and applying functional programming, and Practical Haskell takes advantage of this to show off the language and what it can do.

What You Will Learn

- Get started programming with Haskell
- Examine the different parts of the language
- Gain an overview of the most important libraries and tools in the Haskell ecosystem
- Apply functional patterns in real-world scenarios
- Understand monads and monad transformers
- Proficiently use laziness and resource management

Who This Book Is For

Experienced programmers who may be new to the Haskell programming language. However, some prior exposure to Haskell is recommended.

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 backend engineers familiar with JavaScript will discover new ways of looking at web development. Create webpage templating system for rendering dynamic data

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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.

Build a Django content management system, blog, and social networking site with James Bennett as he introduces version 1.1 of the popular Django framework. You'll work through the development of each project, implementing and running the applications while learning new features along the way. Web frameworks are playing a major role in the creation of today's most compelling web applications, because they automate many of the tedious tasks, allowing developers to instead focus on providing users with creative and powerful features. Python developers have been particularly fortunate in this area, having been able to take advantage of Django, a very popular open-source web framework whose stated goal is to "make it easier to build better web applications more quickly with less code." Practical Django Projects introduces this popular framework by way of a series of real-world projects. Readers follow along with the development of each project, implementing and running each application while learning new features along the way. This edition is updated for Django 1.1 and includes an all-new chapter

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covering practical development tools and techniques you'll be able to apply to your own development workflow.

Front Cover Practical Web Technologies P.K. Yuen V. Lau SUBJECT COVERED > HTML > XHTML > CSS > JAVA > J2SDK > 2D SHAPES > BUSINESS GRAPHICS > MULTIMEDIA & MOVIES > WINDOWS MEDIA PLAYER (WMP) > PLUGINS > JMF > BROADCASTING LIVE VIDEO > XML > XSL > XSLT > XML PARSER > ECMAScript (JAVASCRIPT) > DHTML > MOVING OBJECTS > DOM > EMAILS & ATTACHMENTS > CGI > APACHE > IIS > PERI > ASP > ASP.NET > PHP > SQL > MySQL > E-COMMERCE > WEB SECURITY > MESSAGE DIGEST (MD) > SSL & TLS > OPENSSL > GNUPG > Mod_SSL > CERTIFICATES > AUTHENTICATION > CERTIFICATE AUTHORITY (CA) > APACHE WITH SSL > HTTPS > MOBILE INTERNET > WML > WAP > WMLScript > M-BUSINESS =====

===== Back

Cover Practical Web Technologies P.K. Yuen V. Lau There are a vast number of Web technologies ranging from ASP to XSLT. If you are looking for a practical, hands-on guide to all major aspects of Web technology, this book is for you. " Practical Web Technologies "" provides an instant course and a reference book for Web design beginners, programmers and engineers, as well as Web

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practitioners. Starting with the basics of Web design, you will be provided with step-by-step practical examples to help you design and set up functional sites on the World Wide Web. The book then moves through more advanced topics, covering subjects such as client and server scripting, e-commerce, broadcasting live video, Web databases and SSL security. Topics covered include: Basic - HTML/XHTML, CSS, Java, ECMAScript (or JavaScript), XML, and XSLT Intermediate A DOM (W3C Document Object Model), CGI, Perl, ASP, ASP.NET, and PHP Advanced A MySQL (Web Databases), SSL and TLS (Web Security), WML and WMLScript (Mobile Internet)"" Other key features: Over 400 working examples presented in "cut and paste" format which can be used directly in other Web applications Over 450 illustrations and screen shots Supporting Web site at www.practical-web.com About the authors P.K. Yuen is a publicly known expert on Communication, Internet and World Wide Web. He has more than 13 years working experience on Web technologies including large scale application developments, engineer training and project leadership. With his work, he filed US and international patents for a number of designs on images, audio and video transmission on the Internet and Web applications. V. Lau is a senior lecturer in computing in the School of Mathematics at Kingston University. He has much experience in teaching

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programming at various undergraduate levels and is particularly interested in teaching Web-related programming skills. He is the core member of the computing courses development team in the School of Mathematics.

A comprehensive guide to building Ruby on Rails apps that can be sustained for many years.

Do you want to build web pages but have no prior experience? This friendly guide is the perfect place to start. You'll begin at square one, learning how the web and web pages work, and then steadily build from there. By the end of the book, you'll have the skills to create a simple site with multicolumn pages that adapt for mobile devices. Each chapter provides exercises to help you learn various techniques and short quizzes to make sure you understand key concepts. This thoroughly revised edition is ideal for students and professionals of all backgrounds and skill levels. It is simple and clear enough for beginners, yet thorough enough to be a useful reference for experienced developers keeping their skills up to date. Build HTML pages with text, links, images, tables, and forms Use style sheets (CSS) for colors, backgrounds, formatting text, page layout, and even simple animation effects Learn how JavaScript works and why the language is so important in web design Create and optimize web images so they'll download as quickly as possible NEW! Use CSS Flexbox and Grid for sophisticated

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and flexible page layout NEW! Learn the ins and outs of Responsive Web Design to make web pages look great on all devices NEW! Become familiar with the command line, Git, and other tools in the modern web developer's toolkit NEW! Get to know the super-powers of SVG graphics

The web has to be inclusive. One in five people living in the UK have a disability. From Microsoft's "inclusive design" movement - creating adaptive controllers for users with a range of disabilities - to Beyoncé's site being sued for failure to be accessible, the importance of considering access needs is gaining mainstream attention. Recognizing and catering for a range of disabilities in our online platforms is key to achieving a truly inclusive web. You'll be guided through a broad range of access needs, the barriers users often face, and provided practical advice on how your sites can help rather than hinder. Going beyond advice tailored solely for developers, this book offers potential improvements for designers, developers, user experience professionals, QA and testers, so that everyone involved in building a website can engage with the concepts without the need to understand how to code. Learn about the very latest technology - such as natural language processing and smart home tech - and explore its application accessibly. This book comes complete with practical examples you can use in your own sites and, for the first time in

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any web accessibility book, access needs experienced by those with mental health disorders and cognitive impairments are comprehensively covered. Applicable to both new projects and those maintaining existing sites and looking for achievable improvements on them, Practical Web Inclusion and Accessibility gives you all the information you need to ensure that your sites are truly accessible for the modern, inclusive web. What You Will Learn

- Understand the vast range of disabilities that have online access needs
- Apply the practical steps required to cater for those needs
- Use new technology to open up exciting avenues for the sites you create and maintain
- Approach accessibility from a full spectrum of online disciplines
- Start thinking about users with specific disabilities and how it impacts your work

Who This Book Is For Anyone who wants to have a greater understanding of the inclusive web and considerations that should be made. You do not need to have coding knowledge.

In Practical PHP Web 2.0 Applications, PHP, MySQL, CSS, XHTML, and JavaScript/Ajax development techniques are brought together to show you how to create the hottest PHP web applications, from planning and design up to final implementation, without going over unnecessary basics that will hold you back. This book includes must-have application features such as search functionality, maps, blogs, dynamic image galleries,

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and personalized user areas. It covers everything in a practical, tutorial style so you can start working on your own projects as quickly as possible.

This book consist of basic as well as advance concept with OOPS php programming.

Summary Get Programming with Haskell leads you through short lessons, examples, and exercises designed to make Haskell your own. It has crystal-clear illustrations and guided practice. You will write and test dozens of interesting programs and dive into custom Haskell modules. You will gain a new perspective on programming plus the practical ability to use Haskell in the everyday world. (The 80 IQ points: not guaranteed.) Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology Programming languages often differ only around the edges—a few keywords, libraries, or platform choices. Haskell gives you an entirely new point of view. To the software pioneer Alan Kay, a change in perspective can be worth 80 IQ points and Haskellers agree on the dramatic benefits of thinking the Haskell way—thinking functionally, with type safety, mathematical certainty, and more. In this hands-on book, that's exactly what you'll learn to do. What's Inside Thinking in Haskell Functional programming basics Programming in types Real-world applications for Haskell About the Reader Written for readers who know one or more

programming languages. Table of Contents Lesson 1 Getting started with Haskell Unit 1 - FOUNDATIONS OF FUNCTIONAL PROGRAMMING Lesson 2 Functions and functional programming Lesson 3 Lambda functions and lexical scope Lesson 4 First-class functions Lesson 5 Closures and partial application Lesson 6 Lists Lesson 7 Rules for recursion and pattern matching Lesson 8 Writing recursive functions Lesson 9 Higher-order functions Lesson 10 Capstone: Functional object-oriented programming with robots! Unit 2 - INTRODUCING TYPES Lesson 11 Type basics Lesson 12 Creating your own types Lesson 13 Type classes Lesson 14 Using type classes Lesson 15 Capstone: Secret messages! Unit 3 - PROGRAMMING IN TYPES Lesson 16 Creating types with "and" and "or" Lesson 17 Design by composition—Semigroups and Monoids Lesson 18 Parameterized types Lesson 19 The Maybe type: dealing with missing values Lesson 20 Capstone: Time series Unit 4 - IO IN HASKELL Lesson 21 Hello World!—introducing IO types Lesson 22 Interacting with the command line and lazy I/O Lesson 23 Working with text and Unicode Lesson 24 Working with files Lesson 25 Working with binary data Lesson 26 Capstone: Processing binary files and book data Unit 5 - WORKING WITH TYPE IN A CONTEXT Lesson 27 The Functor type class Lesson 28 A peek at the Applicative type class:

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using functions in a context Lesson 29 Lists as context: a deeper look at the Applicative type class Lesson 30 Introducing the Monad type class Lesson 31 Making Monads easier with donotation Lesson 32 The list monad and list comprehensions Lesson 33 Capstone: SQL-like queries in Haskell Unit 6 - ORGANIZING CODE AND BUILDING PROJECTS Lesson 34 Organizing Haskell code with modules Lesson 35 Building projects with stack Lesson 36 Property testing with QuickCheck Lesson 37 Capstone: Building a prime-number library Unit 7 - PRACTICAL HASKELL Lesson 38 Errors in Haskell and the Either type Lesson 39 Making HTTP requests in Haskell Lesson 40 Working with JSON data by using Aeson Lesson 41 Using databases in Haskell Lesson 42 Efficient, stateful arrays in Haskell Afterword - What's next? Appendix - Sample answers to exercise

If you don't know about the new features available in HTML5, now's the time to find out. This book provides practical information about how and why the latest version of this markup language will significantly change the way you develop for the Web. HTML5 is still evolving, yet browsers such as Safari, Mozilla, Opera, and Chrome already support many of its features -- and mobile browsers are even farther ahead. HTML5: Up & Running carefully guides you through the important changes in this version with lots of hands-on examples, including

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markup, graphics, and screenshots. You'll learn how to use HTML5 markup to add video, offline capabilities, and more -- and you'll be able to put that functionality to work right away. Learn new semantic elements, such as `<video>`, `<audio>`, and Meet Canvas, a 2D drawing surface you can program with JavaScript

Embed video in your web pages without third-party plugins Use Geolocation to let web application visitors share their physical location Take advantage of local storage capacity that goes way beyond cookies Build offline web applications that work after network access is disconnected Learn about several new input types for web forms Create your own custom vocabularies in HTML5 with microdata

Learn what JAMstack is all about, what those three big letters in the front mean and why it's so beneficial. This book shows you how to create sites and apps on the JAMstack using GatsbyJS, a tool made specifically for generating them. As part of that, you'll learn about React, one of the hottest front-end development tools out there today. You will build three separate projects, starting with a relatively simple site to get your feet wet, then a more robust and dynamic application to see more advanced topics like API usage and data storage. Finally, you'll build a game on the JAMstack to get a whole different perspective on how all the pieces can fit together. The JAMstack, a modern take on best practices, is taking the web development world by storm and allowing developers to create web site and apps that are blazingly fast and highly secure. In many ways

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JAMstack is a throwback to web development of yesteryear, all while providing a simpler development experience that is streamlined by many years of best practices being brought to bear. What You'll Learn

- Review the principles of JAMstack: Javascript, APIs and Markup
- Use React to build a front-end
- Set up a GitHub account and hosting using GitHub Pages
- Host in Netlify (the creators of JAMStack!)
- Understand Netlify Lambda functions and FaunaDB for persistent data storage
- Explore GraphQL usage for querying data
- Work with the Phaser game library

Who This Book Is For

Web developers with some HTML, CSS and JavaScript experience, who want to apply best practices to build web sites that have no back-end server infrastructure while still providing dynamic content along with a streamlined development process. Architects who just want to learn JAMstack, even if they aren't going to be hacking code all day.

Grasp the fundamentals of web application development by building a simple database-backed app from scratch, using HTML, JavaScript, and other open source tools. Through hands-on tutorials, this practical guide shows inexperienced web app developers how to create a user interface, write a server, build client-server communication, and use a cloud-based service to deploy the application. Each chapter includes practice problems, full examples, and mental models of the development workflow. Ideal for a college-level course, this book helps you get started with web app development by providing you with a solid grounding in the process. Set up a basic workflow with a text editor, version control system, and

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web browser Structure a user interface with HTML, and include styles with CSS Use JQuery and JavaScript to add interactivity to your application Link the client to the server with AJAX, JavaScript objects, and JSON Learn the basics of server-side programming with Node.js Store data outside your application with Redis and MongoDB Share your application by uploading it to the cloud with CloudFoundry Get basic tips for writing maintainable code on both client and server

Django is a framework designed to balance rapid web development with high performance. It handles high levels of user traffic and interaction, integrates with a variety of databases, and collects and processes data in real time. This book follows a task-based approach to guide you through developing with the Django 2.1 framework, starting with ...

Fundamentals of Web Development covers the broad range of topics required for modern web development (both client- and server-side) and is appropriate for students who have taken a CS1 course sequence. The book guides students through the creation of enterprise-quality websites using current development frameworks, its comprehensive coverage of a modern internet development platform; includes HTML5, CSS3, Javascript, and the LAMP stack (that is, Linux, Apache, MySQL, and PHP). Other important technologies covered include jQuery, XML, WordPress, Bootstrap, and a variety of third-party APIs that include Facebook, Twitter, and Google and Bing Maps. Coverage also includes the required ACM web development topics in a modern manner closely aligned with best practices in the

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real world of web development. Teaching and Learning Experience Help students master the fundamentals of web development: A true grasp of web development requires an understanding of both the foundations of the web and current web development practices. Support learning outcomes in various teaching scenarios: This book allows instructors to chart their own unique way through the topics that make up contemporary web development.

Django is a popular Python-based framework for web application development. Like Python, Django is easy for beginners to learn and enables constant progress. This book will help aspiring web developers gain the skills to use Django to develop robust web apps.

Practical HTML5 Projects is a collection of valuable web techniques that any developer or designer can use. This book is all about saving time. Busy web developers should not have to plow through pages of theory or history only to discover that no practical applications are provided, nor should they have to read a paragraph five times to extract some meaning from it. All of the techniques within this book are explained using fully worked examples that you can immediately apply to your own projects. With each technique the book provides: A practical and useful example (and a screen shot of the end result where applicable). The markup for a fully worked example. A downloadable template to adapt for use in your own websites. With Practical HTML5 Projects, you can dive straight into the book at the required chapter and immediately find answers to your website problems, and find the sample code you can use

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to get it right. Start creating websites using the practical examples, summaries, and templates. This book includes topics such as rollover navigation menus without scripts, adding audio and video, rounded corners, drop shadows, adding PayPal services, and much more. It also includes sections on troubleshooting and transitioning to HTML5 and CSS3 to help bring your existing content up to date.

Are you looking for a crash course that will help you learn Python? Do you want to master data science using Python? If yes, then keep reading! Python is one of the most popular programming languages in the world in 2020 and specially for data science. Every day people use it to do cool things like Automation, they use it in Artificial Intelligence, Machine Learning, as well as Building Applications and Websites like Instagram and Dropbox. YouTube, Pinterest, and SurveyMonkey are all built on Python. So if you are looking for a trendy job, like data scientist, Python is for you. This is a Python guide with 2 Books in 1: Python crash course Python for data analysis Python has seen an explosion in popularity in recent years, driven by several aspects that make it an incredibly versatile and intuitive language. Moreover, data analysis plays a significant job in numerous parts of your regular day to day existence today. Organizations use information to Understand Their Customer Needs and produce the Best Possible Product or Service. Python Programming Language is one of the best framework with regards to information examination. Data Scientist is the most requested job of the 21st century and Python is the most popular programming language

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of the 21st century. So it's pretty obvious that anyone have skills in both Data Science and Python will be in great demand in industry. You needn't bother with an exhausting and costly reading material. This guide is the best one for every readers. This guide covers: The world of data science technologies Application of machine learning Data scientist: the sexiest job in the 21st century Learning Python from scratch Data analysis with Python NumPy for numerical data processing Data visualization with Python Projects on Python And much more! Despite its simplicity, Python is also sturdy and robust enough to carry out complex scientific and mathematical tasks. Python has been designed with features that drastically simplify the visualization and analysis of data, and Python is also the go-to choice for the creation of machine learning models and artificial intelligence. Be it machine learning, data analytics, data processing, web development, enterprise software development or taking the photo of Blackhole: Python is everywhere. Beloved by the data scientists and new generation developers, Python will eat the word! Ready to get started? Click the BUY NOW button!

Learn how to build a wide range of scalable real-world web applications using a professional development toolkit. If you already know the basics of Node.js, now is the time to discover how to bring it to production level by leveraging its vast ecosystem of packages. With this book, you'll work with a varied collection of standards and frameworks and see how all those pieces fit together. Practical Node.js takes you from installing all the necessary modules to writing full-stack web

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applications. You'll harness the power of the Express.js and Hapi frameworks, the MongoDB database with Mongoskin and Mongoose. You'll also work with Pug and Handlebars template engines, Stylus and LESS CSS languages, OAuth and Everyauth libraries, and the Socket.IO and Derby libraries, and everything in between. This exciting second edition is fully updated for ES6/ES2015 and also covers how to deploy to Heroku and AWS, daemonize apps, and write REST APIs. You'll build full-stack real-world Node.js apps from scratch, and also discover how to write your own Node.js modules and publish them on NPM. Fully supported by a continuously updated source code repository on GitHub and with full-color code examples, learn what you can do with Node.js and how far you can take it! What You'll Learn Manipulate data from the mongo console Use the Mongoskin and Mongoose MongoDB libraries Build REST API servers with Express and Hapi Deploy apps to Heroku and AWS Test services with Mocha, Expect and TravisCI Implement a third-party OAuth strategy with Everyauth Web developers who have some familiarity with the basics of Node.js and want to learn how to use it to build apps in a professional environment. Implement the powerful multimedia and interactive capabilities offered by HTML5, including style control tools, illustration tools, video, audio, and rich media solutions. Understand how HTML5 is changing the web development game with this project-based book that shows you-not just tells you-what HTML5 can do for your websites. Reinforce your practical understanding of the new standard with demo applications and tutorials, so that execution is one short step away. HTML5 is the future of the web. Literally every web

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designer and developer needs to know how to use this language to create the types of web sites consumers now expect. This new edition of the bestseller teaches you to enhance your web designs with rich media solutions and interactivity, using detailed descriptions and hands-on projects for every step along the way. The second edition contains completely updated information, including more on mobility and video standards, plus new projects. The companion website, visualizetheweb.com, is packed full of extra information, online code libraries, and a user forum, offering even more opportunity to learn new skills, practice your coding and interact with other users.

With organizations and individuals increasingly dependent on the Web, the need for competent, well-trained Web developers and maintainers is growing. Helping readers master Web development, *Dynamic Web Programming and HTML5* covers specific Web programming languages, APIs, and coding techniques and provides an in-depth understanding of the underlying concepts, theory, and principles. The author leads readers through page structuring, page layout/styling, user input processing, dynamic user interfaces, database-driven websites, and mobile website development. After an overview of the Web and Internet, the book focuses on the new HTML5 and its associated open Web platform standards. It covers the HTML5 markup language and DOM, new elements for structuring Web documents and forms, CSS3, and important JavaScript APIs associated with HTML5. Moving on to dynamic page generation and server-side programming with PHP, the text discusses page templates, form processing, session control, user login, database access, and server-side HTTP requests. It also explores more advanced topics such as XML and PHP/MySQL. Suitable for a one- or two-semester course at the advanced undergraduate or beginning graduate level, this

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comprehensive and up-to-date guide helps readers learn modern Web technologies and their practical applications. Numerous examples illustrate how the programming techniques and other elements work together to achieve practical goals. Online Resource Encouraging hands-on practice, the book's companion website at <http://dwp.sofpower.com> helps readers gain experience with the technologies and techniques involved in building good sites. Maintained by the author, the site offers: Live examples organized by chapter and cross-referenced in the text Programs from the text bundled in a downloadable code package Searchable index and appendices Ample resource listings and information updates

The purpose of this book is to provide an introduction to this set of technologies to teach a new programmer how to get started creating data-driven websites and to provide a jumping-off point for the reader to expand his or her skills. Today's modern world is heavily dependent on the World Wide Web. It affects the way we communicate, how we shop, and how we learn about the world. Every website, every page, consists of four fundamental elements: the structure, the style, the programming, and the data. These correspond to four different "languages," respectively: HTML, CSS, PHP, and MySQL. After learning the necessary components, users will have the understanding required to use the above technologies to create a working website. This book is aimed at the programmer or student who understands the basic building blocks of programming such as statements and control structures but lacks knowledge of the syntax and application of the above-mentioned technologies.

* Treats LISP as a language for commercial applications, not a language for academic AI concerns. This could be considered to be a secondary text for the Lisp course that most schools teach . This would appeal to students who sat

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through a LISP course in college without quite getting it – so a "nostalgia" approach, as in "wow-lisp can be practical..." * Discusses the Lisp programming model and environment. Contains an introduction to the language and gives a thorough overview of all of Common Lisp's main features. * Designed for experienced programmers no matter what languages they may be coming from and written for a modern audience—programmers who are familiar with languages like Java, Python, and Perl. * Includes several examples of working code that actually does something useful like Web programming and database access.

Learn the fundamentals of modern web design, rather than relying on CMS programs, such as WordPress or Joomla!. You will be introduced to the essentials of good design and how to optimize for search engines. You will discover how to register a domain name and migrate a website to a remote host. Because you will have built the web pages yourself, you will know exactly how HTML and CSS work. You have will complete control over your websites and their maintenance. Practical Website Design for Absolute Beginners centers around introducing small amounts of new code in short practical chapters and provides many website templates that can be easily adapted for your own websites. Each chapter builds on the templates created in the previous chapter. You are provided with a practical project to complete in most chapters, and taught to produce practical web pages right from the start. In the first chapter you will install and configure a free text editor, then you will produce the structure for your first web page. You will then gradually learn to create more sophisticated and increasingly practical web pages and websites. In this book you will be encouraged by means of a series of achievable goals, and you will be rewarded by the knowledge that you are learning something valuable and really worthwhile. You will not have to plow through daunting

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chapters of disembodied code theory because the code is described and explained in context within each project. Because each project is fully illustrated, you will see clearly what you are expected to achieve as you create each web page. What You'll Learn Provides instructions for installing a text editor for producing HTML and CSS Shows you step-by-step how to build and test web pages and websites Teaches you how to ensure that your websites are attractive and useful Describes how to make the most effective use of color and images Teaches you the essential features of search engine optimization Shows you how to migrate your website to a remote host Who This Book Is For Practical Website Design for Absolute Beginners is for people who want to begin designing their own websites. It uses a highly motivational, easily assimilated step-by-step approach where you will start learning practical skills from the very first chapter. The book is an excellent choice for people who have computer skills but would also like to learn HTML and CSS. For readers who have little or no knowledge of HTML and CSS, the book will teach enough to complete all the projects in the book.

Modern web development is so much more than just HTML and CSS with a little JavaScript mixed in. People want faster, more usable interfaces that work on multiple devices, and you need the latest tools and techniques to make that happen. This book gives you over 40 concise solutions to today's web development problems, and introduces new solutions that will expand your skill set---proven, practical advice from authors who use these tools and techniques every day. In this completely updated edition, you'll find innovative new techniques and workflows, as well as reworked solutions that take advantage of new developments. Web development is constantly changing, and you need to stay on top of your game. Discover a wide spectrum of web development

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techniques, from how to improve the way you present content, to solutions for data analysis, testing, and deployment. In this edition we introduce new tools, add new recipes, and modernize old ones. You'll use Vagrant to automate server setup, and you'll discover new ways to develop blogs and static sites. You'll learn how to use Grunt to script the deployment of your web project, and use Angular to build a single-page app. You'll learn how to make content stand out with simple cross-browser styles; create animations that work well everywhere without plugins; and create lightweight, responsive layouts. We'll show you how to use preprocessors like CoffeeScript and Sass; write tests for your code; use Git and Dropbox to collaborate; configure and secure the Apache web server; use virtualization to set up your own servers automatically; and much more. Whether you're new to front-end development, or you've got a few years of experience, you'll become a more versatile developer by finding out how---and why---to use these solutions in your next project. What You Need: Your favorite text editor, the most current version of Mozilla Firefox, Internet Explorer, Google Chrome or Safari, and a working knowledge of HTML and JavaScript. Familiarity with command-line interfaces is a plus.

Master powerful new approaches to web architecture, design, and user experience This book presents a pragmatic, problem-driven, user-focused approach to planning, designing, and building dynamic web solutions. You'll learn how to gain maximum value from Domain-Driven Design (DDD), define optimal supporting architecture, and succeed with modern UX-first design approaches. The author guides you through choosing and implementing specific technologies and addresses key user-experience topics, including mobile-friendly and responsive design. You'll learn how to gain more value from existing Microsoft technologies such as ASP.NET

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MVC and SignalR by using them alongside other technologies such as Bootstrap, AJAX, JSON, and JQuery. By using these techniques and understanding the new ASP.NET Core 1.0, you can quickly build advanced web solutions that solve today's problems and deliver an outstanding user experience. Microsoft MVP Dino Esposito shows you how to: Plan websites and web apps to mirror real-world social and business processes Use DDD to dissect and master the complexity of business domains Use UX-Driven Design to reduce costs and give customers what they want Realistically compare server-side and client-side web paradigms Get started with the new ASP.NET Core 1.0 Simplify modern visual webpage construction with Bootstrap Master practical, efficient techniques for running ASP.NET MVC projects Consider new options for implementing persistence and working with data models Understand Responsive Web Design's pros, cons, and tradeoffs Build truly mobile-friendly, mobile-optimized websites About This Book For experienced developers and solution architects who want to plan and develop web solutions more effectively Assumes basic familiarity with the Microsoft web development stack

The divide between UX and Web development can be stifling. Bridging UX and Web Development prepares you to break down those walls by teaching you how to integrate with your team's developers. You examine the process from their perspective, discovering tools and coding principles that will help you bridge the gap between design and implementation. With these tried and true approaches, you'll be able to capitalize on a more productive work environment. Whether you're a novice UX professional finding your place in the software industry and looking to nail down your technical skills, or a seasoned UI designer looking for practical information on how to integrate your team with development,

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this is the must-have resource for your UX library. Establish a collaboration lifecycle, mapping design activities to counterparts in the software development process Learn about software tools that will improve productivity and collaboration Work through step-by-step exercises that teach font-end coding principles to improve your prototyping and implementation activities Discover practical, usable HTML and CSS examples Uncover tips for working with various developer personas

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