

# Web Development with **Clojure**

Build Bulletproof Web Apps  
with Less Code



**Dmitri Sotnikov**  
*edited by Michael Swaine*

# Web Development With Clojure Build Bulletproof Web Apps With Less Code

**Mike Rourke**

## **Web Development With Clojure Build Bulletproof Web Apps With Less Code:**

Web Development with Clojure Dmitri Sotnikov, 2016 If the usual patchwork of web development tools and languages just isn't cutting it for you, you need Web Development With Clojure. Clojure gives you the rich infrastructure of the JVM with the expressive power of a modern functional language. It combines excellent performance with rapid development and you can exploit these virtues for web app development. With step by step examples, you'll learn how to harness that power and richness to build modern web applications. Modern web development needs modern tools. Web Development With Clojure shows you how to apply Clojure programming fundamentals to build real world solutions. You'll develop all the pieces of a full web application in this powerful language. If you already have some familiarity with Clojure, you'll learn how to put it to serious practical use. If you're new to the language, the book provides just enough Clojure to get down to business. You'll learn the full process of web development using Clojure while getting hands on experience with current tools, libraries and best practices in the language. You'll develop Clojure apps with both the Light Table and Eclipse development environments. Rather than frameworks, Clojure development builds on rich libraries. You'll acquire expertise in the popular Ring Compojure stack and you'll learn to use the Liberator library to quickly develop RESTful services. Plus, you'll find out how to use ClojureScript to work in one language on the client and server sides. Throughout the book, you'll develop key components of web applications including multiple approaches to database access. You'll create a simple guestbook app and an app to serve resources to users. By the end, you will have developed a rich Picture Gallery web application from conception to packaging and deployment. This book is for anyone interested in taking the next step in web development. What You Need: The latest JVM, Clojure 1.4 and the Leiningen build tool, as well as an editor such as Emacs, Eclipse or Light Table. Alibris.com Web Development with Clojure Dmitri Sotnikov, 2016-07-14 Modern web applications deserve modern tools. Harness the JVM's rich infrastructure while taking advantage of the expressive power and brisk performance of a modern functional language. Exploit Clojure's unique advantages for web development. Step by step, apply the fundamentals of programming in Clojure to build real world professional web applications. This edition features new libraries, tools and best practices and focuses on developing modern single page applications. 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 create a series of web apps of growing complexity, exhibiting the full process of web development using a modern functional language. Journey through all the steps in developing a rich Picture Gallery web application from conception to packaging and deployment. You'll work hands on with Clojure and build real world professional web apps. This fully updated second edition reveals the changes in the rapidly evolving Clojure ecosystem. Get up to speed on the many new libraries, tools and best practices. Gain expertise in the popular Ring Compojure 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 Reagent library to build single page applications This book is for you whether you're already familiar with Clojure or if you're completely new to the language What You Need The latest JVM Clojure 1.6 and the Leiningen build tool as well as an editor such as Emacs IntelliJ Eclipse Light Table or VI *Web Development with Clojure* Dmitri Sotnikov, Scot Brown, 2021-07-04 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 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 *Web Development with Clojure, 3rd Edition* Dmitri Sotnikov, Scot Brown, 2021 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 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 **Learning ClojureScript** W. David Jarvis, Rafik Naccache, Allen Rohner, 2016-06-30 Master the art of agile single page web application development with ClojureScript About This Book Set up interactive development workflows for the browser or Node.js thanks to the ClojureScript ecosystem Learn the basics of interactive single page web app development taking advantage of the functional nature of ClojureScript Delve into advanced rich web application development concepts such as Om along with core.async using zippers and logic programming and preparing code for production with testing or optimizing via the Google Closure Compiler Who This Book Is For This book is for web application developers who want to benefit from the power of ClojureScript to get an agile and highly productive development platform that targets mainly browser JavaScript You are not required to be fluent in Clojure but it will be easier for you if you have a basic understanding of browser and server side JavaScript What You Will Learn Understand how the ClojureScript compiler operates Set up interactive development workflows for ClojureScript Grasp the basics of the ClojureScript language including basic syntax data structures variable scoping namespaces and finally the powerful sequence abstraction Delve into advanced concepts such as functional programming macro writing asynchronous programming app routing and real time web Develop simple one page web applications Explore techniques to make your web apps aware of the external world through external or embedded database access or OAuth 2 integration Learn more advanced ClojureScript concepts like in app routing real time web Prepare your work for production getting insights into optional type checking writing portable Clojure ClojureScript code and testing In Detail Clojure is an expressive language that makes it possible to easily tackle complex software development challenges Its bias toward interactive development has made it a powerful tool enabling high developer productivity In this book you will first learn how to construct an interactive development experience for ClojureScript You will be guided through ClojureScript language concepts looking at the basics first then being introduced to advanced concepts such as functional programming or macro writing After that we elaborate on the subject of single page web applications showcasing how to build a simple one then covering different possible enhancements We move on to study more advanced ClojureScript concepts where you will be shown how to address some complex algorithmic cases Finally you'll learn about optional type checking for your programs how you can write portable code test it and put the advanced compilation mode of the Google Closure Compiler to good use Style and approach This book is a comprehensive reference guide on ClojureScript development for the front end and will gradually help you master interactive ClojureScript development workflows through detailed step by step information illustrated with annotated code samples **Real-World Next.js** Michele Riva, 2022-02-28 Learn how to use Next.js for building web apps without compromising performance user experience and developer happiness Key Features Develop scalable web applications using Next.js Use Next.js as a frontend for existing backends and e-commerce websites and understand how to implement it with

any headless CMSDeploy Next.js on different platforms such as Vercel DigitalOcean and AWS or on your own serverBook Description Next.js is a scalable and high performance React.js framework for modern web development and provides a large set of features such as hybrid rendering route prefetching automatic image optimization and internationalization out of the box If you are looking to create a blog an e-commerce website or a simple website this book will show you how you can use the multipurpose Next.js framework to create an impressive user experience Starting with the basics of Next.js the book demonstrates how the framework can help you reach your development goals You'll realize how versatile Next.js is as you build real world applications with step by step explanations This Next.js book will guide you in choosing the right rendering methodology for your website securing it and deploying it to different providers all while focusing on performance and developer happiness By the end of the book you'll be able to design build and deploy modern architectures using Next.js with any headless CMS or data source What you will learnGet up to speed with Next.js essentials and learn how to build apps quicklyUnderstand how to create scalable Next.js architecturesChoose between different rendering strategies such as client side rendering CSR static site generation SSG server side rendering SSR and incremental static regeneration ISR Write unit tests and integration tests in your Next.js applicationDiscover the powerful routing system and Next.js built-in componentsDesign and build modern architectures with Next.js using GraphCMS or any headless CMSWho this book is for This book is for web developers who want to improve their React skills by building scalable and maintainable full stack applications using the modern Next.js web framework Intermediate level knowledge of ES6 React Node.js and REST is assumed

Seven Web Frameworks in Seven Weeks Jack Moffitt, Frederic Daoud, 2013-12-31 Whether you need a new tool or just inspiration Seven Web Frameworks in Seven Weeks explores modern options giving you a taste of each with ideas that will help you create better apps You'll see frameworks that leverage modern programming languages employ unique architectures live client side instead of server side or embrace type systems You'll see everything from familiar Ruby and JavaScript to the more exotic Erlang Haskell and Clojure The rapid evolution of web apps demands innovative solutions this survey of frameworks and their unique perspectives will inspire you and get you thinking in new ways to meet the challenges you face daily This book covers seven web frameworks that are influencing modern web applications and changing web development Sinatra CanJS AngularJS Ring Webmachine Yesod Immutant Each of these web frameworks brings unique and powerful ideas to bear on building apps Embrace the simplicity of Sinatra which sheds the trappings of large frameworks and gets back to basics with Ruby Live in the client with CanJS and create apps with JavaScript in the browser Be declarative with AngularJS say what you want not how to do it with a mixture of declarative HTML and JavaScript Turn the web into data with Ring and use Clojure to make data your puppet Become a master of advanced HTTP with Webmachine and focus the power of Erlang Prove web theorems with Yesod see how Haskell's advanced type system isn't just for academics Develop in luxury with Immutant an enlightened take on the enterprise framework Seven Web Frameworks will influence your work no

matter which framework you currently use Welcome to a wider web What You Need You ll need Windows MacOS X or Linux along with your favorite web browser Each chapter will cover what you need to download and which language versions are required

*Practical Node.js* Azat Mardan, 2018-11-03 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 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

### **Full Stack FastAPI, React, and MongoDB**

Marko Aleksendrić, Shrey Batra, Rachelle Palmer, Shubham Ranjan, 2024-08-23 Boost your web developer potential and stay ahead in the fast paced web development and AI race with the flexibility adaptability and robustness of the FARM stack Key Features Learn the basics of MongoDB to be able to model any type of data Explore the powerful Python web development ecosystem with Pydantic and FastAPI Future proof your applications by integrating ChatGPT or other LLMs Purchase of the print or Kindle book includes a free PDF eBook Book Description Discover how to harness the power of the FARM stack FastAPI React and MongoDB to develop production ready web applications of varying complexity Written by a team of industry experts including MongoDB champions and product leaders this fast paced hands on guide equips beginners with essential skills to build web applications efficiently Introducing each element of the stack the book demonstrates how to seamlessly integrate them to create a medium sized web application You ll set up MongoDB as a document store construct a simple API with FastAPI and build an application using React The guide also covers enhancing application security through authentication and authorization with JSON Web Tokens Beyond mastering the stack you ll get to grips with integrating Large Language Models like ChatGPT for advanced functionality such as automated email sending Additionally you ll learn how to make the most of Next.js 14 a robust full stack framework offering improved developer experience By the end of the

book you'll have created functional applications and gained the foundation to explore diverse and more specialized domains expanding your development horizons. What you will learn: Set up and manage MongoDB databases and collections and model data. Leverage the power of FastAPI to write complex APIs using pure Python. Create frontends of varying complexity with the React library. Build and deploy robust and secure backends using FastAPI and MongoDB. Ship production-ready applications with Next.js 14 applying your React and backend knowledge. Integrate Large Language Models, send emails and do much more with the flexible FARM stack. Who is this book for? The book is for intermediate web developers with basic JavaScript and Python knowledge who want to enhance their developer skills, master a powerful and flexible stack and write better applications faster.

**Building Web Apps with Python and Flask** Malhar Lathkar, 2021-03-12

A practical guide for the rapid web application development with Flask.

**KEY FEATURES**

- Expert-led coverage of core capabilities of Flask key extensions and its implementation.
- Explore the Werkzeug toolkit and Jinja Template engine and see how Flask interacts with JavaScript and CSS.
- Detailed modules on building and deploying RESTful applications using Flask.

**DESCRIPTION**

This book teaches the reader the complete workflow of developing web applications using Python and its most outperforming microframework, Flask. The book begins with getting you up to speed in developing a strong understanding of the web application development process and how Python is used in developing the applications. You will learn how to write your own first Flask-based web application in Python. You will learn about web gateway interfaces including CGI and WSGI along with various tools like the Jinja 2 engine, Werkzeug toolkit and Click toolkit. You will learn and practice the core features of Flask such as URL routing, rendering, handling static assets of a web application, how to handle cookies and sessions and other HTTP objects. Once you have developed a strong knowledge of Flask, you will now dive deeper into advanced topics that include Flask extensions for working with relational and NoSQL databases, Flask-WTF and Flask-Bootstrap. You will explore design patterns, various blueprints on how to build modular and scalable applications and finally how to deploy the RESTful APIs successfully on your own.

**WHAT YOU WILL LEARN**

- Get to know everything about the core capabilities of Flask.
- Understand the basic building blocks of Flask.
- Get familiar with advanced features of Flask including blueprints, Flask extensions and database connectivity.
- Get ready to design your own Flask-based web applications and RESTful APIs.
- Learn to build modular and scalable applications and how to deploy them successfully.

**WHO THIS BOOK IS FOR**

This book is ideal for Python enthusiasts, open source contributors and web app developers who intend to add Python web technologies in their skillsets and startup companies. The understanding of the core Python language with intermediate level expertise is required and experience of working with SQL, HTML, CSS and JavaScript is an added advantage.

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*Streamlit for Web Development* Mohammad Khorasani, Mohamed Abdou, Javier Hernández Fernández, 2025-11-19

Transition from a back end developer to a full stack developer with knowledge of all the dimensions of web application development namely front end back end and server side software In this new edition Streamlit for Web Development provides a comprehensive overview of Streamlit allowing developers and programmers of all backgrounds to get up to speed in as little time as possible Streamlit is a pure Python web framework that will bridge the skills gap and shorten development time from weeks to hours This book walks you through the complete cycle of web application development from an introductory to advanced level with accompanying source code and resources You will be exposed to developing basic intermediate and sophisticated user interfaces and subsequently you will be acquainted with data visualization database systems application security and cloud deployment in Streamlit In a market with a surplus demand for full stack developers this skill set could not possibly come at a better time In one sentence Streamlit is a means for the empowerment of developers every where and all stand to gain from it You Will Learn how to mutate big data in real time Understand how to visualize big data interactively Implement web application security and privacy protocols How to successfully deploy Streamlit web applications to the cloud using Streamlit Linux and Windows servers New For This Edition Covers updates from the Streamlit 1.4 release Showcases Streamlit's latest UI features Expands on the use and development of Streamlit Components Introduces new chapters on unit testing and integrating AI with Streamlit Demonstrates the implementation of LLMs chatbots and generative AI applications Who is this Book for Developers with solid programming experience wanting to learn Streamlit Back end developers looking to upskill and transition to become a full stack developers Those who wish to learn and become more acquainted with data visualization database systems security and cloud deployment with Streamlit

**Ultimate Deno for Web Development: Build Lightning-Fast, Secure Web Applications with Deno Using TypeScript, React, Rust, and Cloud-Ready Tools like Docker, Azure, and Chocolatey** Prof. Veerendra, 2025-05-28

Master Modern Web App Development with Deno TypeScript and Rust Key Features Build secure high performance apps with Deno and TypeScript Integrate React Rust and Next.js for full stack workflows Deploy using Docker Azure and manage tools via Chocolatey Book Description Deno is a modern secure runtime for JavaScript and TypeScript offering developers a simplified efficient way to build high performance web applications with built in tooling and a robust standard library In Ultimate Deno for Web Development you'll dive deep into the Deno ecosystem from setting up the runtime and understanding its architecture to mastering TypeScript integrating Rust modules and leveraging Deno's security first execution model You'll progressively build full stack applications using modern tools like React Next.js and Visual Studio Code while learning to manage dependencies with Chocolatey and deploy seamlessly with Docker and Microsoft Azure Real world examples guide you through creating RESTful APIs managing users implementing robust testing strategies and preparing your applications for production Each chapter builds upon the last ensuring a seamless learning journey from fundamentals to deployment Whether you're a student freelancer or professional developer this book equips you to harness

Deno's full potential and build secure scalable web applications with confidence. Don't get left behind, step into the future of web development with Deno today. What you will learn: Install and configure the Deno runtime for modern web development. Build dynamic full stack applications using TypeScript, React and Next.js. Leverage Deno's toolchain, standard library and secure execution model. Use Rust modules and Language Server Protocol (LSP) to boost performance. Compare Deno with Node.js to understand architectural differences and benefits. Test and deploy Deno applications on the cloud using Docker and Azure.

[Web Development with MongoDB and NodeJS](#) Mithun Satheesh, Bruno Joseph D'mello, Jason Krol, 2015-10-30

Build an interactive and full featured web application from scratch using Node.js and MongoDB. About This Book: Configure your development environment to use Node.js and MongoDB. Use Node.js to connect to a MongoDB database and perform data manipulations. A practical guide with clear instructions to design and develop a complete web application from start to finish. Who This Book Is For: This book is designed for JavaScript developers of any skill level that want to get up and running using Node.js and MongoDB to build full featured web applications. A basic understanding of JavaScript and HTML is the only requirement for this book. What You Will Learn: Configure your development environment to use Node.js and MongoDB. Write and configure a web server using Node.js powered by the Express.js framework. Build dynamic HTML pages using the Handlebars template engine. Persist application data using MongoDB and Mongoose ODM. Test your code using automated testing tools such as the Mocha framework. Deploy the development environment to the cloud using services such as Heroku, Amazon Web Services and Microsoft Azure. Explore Single Page application frameworks to take your web applications to the next level. In Detail: Node.js and MongoDB are quickly becoming one of the most popular tech stacks for the web. Powered by Google's V8 engine, Node.js caters to easily building fast, scalable network applications while MongoDB is the perfect fit as a scalable, high performance, open source NoSQL database solution. Using these two technologies together, web applications can be built quickly and easily and deployed to the cloud with very little difficulty. The book will begin by introducing you to the groundwork needed to set up the development environment. Here you will quickly run through the steps necessary to get the main application server up and running. Then you will see how to use Node.js to connect to a MongoDB database and perform data manipulations. From here on, the book will take you through integration with third party tools for interaction with web apps. It then moves on to show you how to use controllers and view models to generate reusable code that will reduce development time. Toward the end of the book, we will cover tests to properly execute the code and some popular frameworks for developing web applications. By the end of the book, you will have a running web application developed with MongoDB and Node.js, along with its popular frameworks, Style and approach. An easy guide to Node.js and MongoDB which will quickly introduce you to the relevant concepts by taking you through the different steps involved in building a full-fledged web application.

**Building Web Apps with Bolt** Addy Osmani, 2025-09-04. AI assisted coding and cloud based tools are already transforming how modern applications are built. Bolt, now a powerful in-browser AI agent from StackBlitz.

streamlines the development process allowing you to prototype quickly debug intelligently and launch confidently no local setup required Whether you're new to full stack development or looking to supercharge your workflow this accessible guide takes you from JavaScript and React fundamentals all the way to deploying sophisticated apps with Bolt new and StackBlitz Through real world projects like a movie explorer and a Supabase powered workout tracker you'll master prompt first development tap into WebContainers for running backend logic in the browser and discover a seamless path from idea to deployment If you're ready to rethink how web apps are built from the command line to the cloud this book is your blueprint Understand the principles behind prompt first development and effectively use AI assisted tooling in Bolt new Explore the individual strengths of differences between and workflows for Bolt new and StackBlitz Build debug and deploy full stack applications using Bolt new with AI assisted code generation Supabase integration and Netlify deployment Manage iterative development with Bolt new features such as checkpoints rollbacks and prompt tuning Transition seamlessly from Bolt new to StackBlitz enhance your applications and leverage browser based backends terminal access and GitHub integration

## **Ruby on Rails for Agile Web Development: A Hands-on Guide to Building Dynamic and Efficient Web**

**Applications** Sajjad Umar, 2024-08-27 Master the Art of Agile Development with Ruby on Rails Key Features Master Ruby on Rails with practical guidance on Scrum and Kanban Build high performance efficient web applications with best practices Advance your web development skills and unlock new career opportunities Test your knowledge with chapter end quizzes to reinforce learning Book Description Discover the power of Ruby on Rails web development framework through the pages of Ruby on Rails for Agile Web Development This book combines the robustness of Rails with the agility of development methodologies like Scrum and Kanban to help you efficiently build high performing web applications Starting with an overview of Ruby and Rails architecture you will quickly grasp the fundamentals of agile development You will explore methodologies such as Scrum and Kanban while gaining hands on experience in key areas like CRUD operations database management styling authentication testing RESTful APIs deployment and more Each chapter concludes with a short quiz to reinforce your understanding and test your progress ensuring you effectively grasp the concepts By the end of the book you will emerge as a competent Ruby on Rails developer with a deep understanding of agile web development principles With real world examples and practical exercises this book empowers you to tackle real time challenges and build robust web applications You will confidently implement features like social media integration email functionality payment gateways and file uploads This book sets you on a path to success in the rapidly evolving field of web development Prepare to excel innovate and create outstanding web applications using the power of Ruby on Rails What you will learn Master the Ruby language and Rails architecture to develop web applications efficiently and reduce code complexity Gain practical knowledge of Scrum and Kanban to contribute effectively to development teams and projects Learn CRUD operations database management styling authentication and testing Develop RESTful APIs and web services to enable communication between

your Rails applications and other systems Build real time applications including social media apps email functionality payment gateways and file uploads to enhance your practical skills and confidence Apply test driven development TDD practices to ensure your applications are reliable and maintainable Explore advanced Rails topics including background jobs caching internationalization and security to further enhance your development skills Table of Contents 1 Introduction 2 Agile Development Fundamentals 3 Getting Started with Ruby on Rails 4 CRUD Operations and Database Management 5 Basics of Styling and Front End Development 6 Authentication and Authorization 7 Testing and Test Driven Development 8 RESTful APIs and Web Services 9 Deployment and Scaling 10 Building A Real World Rails Application 11 Advanced Topics in Ruby on Rails 12 Conclusion Index **Elixir & Phoenix Unleashed** BRYAN. JESTER, 2025-08-28 Build high performance real time web applications with confidence Elixir Phoenix Unleashed is your comprehensive guide to mastering Elixir Phoenix and LiveView empowering you to build scalable maintainable and interactive applications without relying heavily on JavaScript Written by a software expert with deep practical experience in functional programming backend systems and production grade Phoenix apps this book provides not just explanations but complete working examples built for real world developers Whether you're building internal tools public APIs or real time dashboards this guide will give you the technical clarity and architectural insight you need to succeed About the Technology Elixir is a functional concurrent language built on the rock solid Erlang VM famous for powering telecom systems and distributed services Phoenix is its flagship web framework offering a modern MVC structure blazing fast performance and productivity features that rival or surpass popular frameworks like Rails and Django LiveView takes things even further enabling interactive real time user experiences directly on the server without needing JavaScript heavy frontend stacks What's Inside Building robust APIs with Phoenix in JSON mode Authentication and secure session management with Guardian Real time UI updates using Phoenix LiveView and PubSub LiveView forms validations and component based design Full CI CD automation with GitHub Actions Dockerization and deployment to Fly.io Render and Gigalixir Performance tuning with Cachex and observability with LiveDashboard ExUnit testing for controllers views and LiveViews Appendices with CLI cheat sheets glossary and ready to use code patterns Who This Book is For This book is designed for backend developers full stack engineers DevOps practitioners and technical leads who want to master Elixir and Phoenix for real world application development Whether you're transitioning from Rails Node.js Django or learning Elixir for the first time this book meets you at your level and helps you grow Elixir and Phoenix are quietly becoming the go to stack for systems where uptime concurrency and speed matter If you're not learning them now you're already behind the curve Companies like Discord PepsiCo and Bleacher Report already use Elixir in production don't wait until you're catching up to learn what you should have started today Each chapter is designed to give you quick wins You'll go from zero to deploying a production grade Phoenix app with authentication LiveView UI and full observability in a matter of weeks not months This is not just a tutorial It's a professional grade blueprint for building deploying and

maintaining Phoenix applications With complete coverage from setup to scaling you ll gain long term career value and architectural insight that generic online tutorials simply don t offer Ready to master modern web development with Elixir and Phoenix Start reading Elixir Phoenix Unleashed today and build faster safer and more scalable web applications with less code fewer bugs and greater developer satisfaction [Learn WebAssembly](#) Mike Rourke,2018-09-25 In the first definitive guide on WebAssembly you ll learn how you can wield this new technology to break through the current barriers of web development and build an entirely new class of performant applications Key FeaturesGenerate WebAssembly modules from C and C using Emscripten and interact with these modules in the browser Learn how to use WebAssembly outside of the browser and load modules using Node js Build a high performance application using C and WebAssembly and port an existing C game to WebAssembly using Emscripten Book Description WebAssembly is a brand new technology that represents a paradigm shift in web development This book teaches programmers to leverage this technology to write high performance applications that run in the browser This book introduces you to powerful WebAssembly concepts to help you write lean and powerful web applications with native performance You start with the evolution of web programming the state of things today and what can be done with the advent and release of WebAssembly We take a look at the journey from JavaScript to asm js to WebAssembly We then move on to analyze the anatomy of a WebAssembly module and the relationship between binary and text formats along with the corresponding JavaScript API Further on you ll implement all the techniques you ve learned to build a high performance application using C and WebAssembly and then port an existing game written in C to WebAssembly using Emscripten By the end of this book you will be well equipped to create high performance applications and games for the web using WebAssembly What you will learnLearn how WebAssembly came to be and its associated elements text format module and JavaScript API Create load and debug a WebAssembly module editor and compiler toolchain Build a high performance application using C and WebAssemblyExtend WebAssembly s feature set using Emscripten by porting a game written in C Explore upcoming features of WebAssembly Node js integration and alternative compilation methodsWho this book is for If you are a web developer or C C programmer keen to leverage the powerful technology of WebAssembly to build high performance web applications then this book is for you [Functional Web Development with Elixir, OTP, and Phoenix](#) Lance Halvorsen,2018

**Quick Start Full Stack Web Development** Erik Ferragut,2020-01-28

Quick Start Full Stack Web Development removes the trial and error from learning to make web applications Being a full stack web developer does not mean knowing everything about every web technology but rather knowing enough to build a complete application including a front end a back end and a database Web searching can provide useful snippets of information but integrating those pieces into a working whole remains a challenge This book will walk the reader through both the component technologies and the steps required to get the pieces to work together This clear focus can save countless hours of frustration compared to trying to assemble a working solution from inconsistent and outdated sources The

reader should have some familiarity with Python or JavaScript but no web programming experience is assumed Quick Start Full Stack Web Development explains key concepts such as REST APIs and JSON Web Tokens and then puts these concepts into practice with real working examples The examples are built step by step providing an opportunity to experiment with the ideas Furthermore there is a consistent focus on getting instant feedback as changes are made to the code a good practice for quickly building intuition and gaining experience The chosen technologies React Flask and PostgreSQL are excellent options for newcomers to web development because they are relatively easy to learn have vibrant supportive communities and can scale to large and complex applications Rather than providing a cursory introduction to a variety of technology options Quick Start Full Stack Web Development provides a thorough foundation in one technology stack This prevents confusion provides more opportunities to reinforce concepts and leads more quickly to significant results Learn how to Build a Python Flask REST API Develop and style a React client Design SQLite and PostgreSQL databases using SQLAlchemy Incorporate JSON Web Tokens JWT for authentication Test it using httpie browser dev tools pytest and Jest Document it using Sphinx and Storybook Deploy using Gunicorn and NGINX on a Platform as a Service The result is a fully functional full stack web application that addresses all the little details like serving the client and API from the same server managing the environment with a config file making the documentation visible in the git repository and populating and uploading databases Because it focuses on getting to a working application Quick Start Full Stack Web Development is well suited to entrepreneurs and solopreneurs building out their minimal viable products And because it explains the concepts and shows them in practice it will help programmers who want to get into web development If you want to learn these powerful skills as quickly as possible then this book is for you

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