ELIGHTWALK

Leveraging Node.js for Scalable and High-Performance Web Applications

Node Js High Performance

Michele Riva

Node Js High Performance:

Hands-On JavaScript High Performance Justin Scherer,2020-02-28 An example driven guide covering modern web app development techniques and emerging technologies such as WebAssembly Service Workers and Svelte js to build faster secure and scalable apps Key FeaturesDiscover effective techniques for accessing DOM minimizing painting and using a V8 engine to optimize JavaScriptUnderstand what makes the web tick and create apps that look and feel like native desktop applicationsExplore modern JavaScript frameworks like Svelte js for building next gen web appsBook Description High performance web development is all about cutting through the complexities in different layers of a web app and building services and APIs that improve the speed and performance of your apps on the browser With emerging web technologies building scalable websites and sustainable web apps is smoother than ever This book starts by taking you through the web frontend popular web development practices and the latest version of ES and JavaScript You ll work with Node js and learn how to build web apps without a framework The book consists of three hands on examples that help you understand JavaScript applications at both the server side and the client side using Node js and Svelte js Each chapter covers modern techniques such as DOM manipulation and V8 engine optimization to strengthen your understanding of the web Finally you ll delve into advanced topics such as CI CD and how you can harness their capabilities to speed up your web development dramatically By the end of this web development book you ll have understood how the JavaScript landscape has evolved not just for the frontend but also for the backend and be ready to use new tools and techniques to solve common web problems What you will learnExplore Vanilla JavaScript for optimizing the DOM classes and modules and querying with jQueryUnderstand immutable and mutable code and develop faster web appsDelve into Svelte js and use it to build a complete real time Todo appBuild apps to work offline by caching calls using service workersWrite C native code and call the WebAssembly module with JavaScript to run it on a browserImplement CircleCI for continuous integration in deploying your web appsWho this book is for This JavaScript book is for web developers C C programmers and anyone who wants to build robust web applications using advanced web technologies This book assumes a good grasp of Vanilla JavaScript and an understanding of web development tools such as Chrome Developer tools or Mozilla s developer tools Nodejs for beginner Suraj Vishwkarma,2023-04-04 Node js is a popular powerful and efficient JavaScript runtime environment that enables developers to build scalable high performance network applications It has become a standard tool for building server side web applications and its popularity has exploded in recent years due to its versatility and ease of use There are numerous Node js books available but they all aim to help developers become proficient in developing Node js applications These books typically cover Node js fundamentals such as asynchronous programming event driven architecture and the Node js runtime environment They also cover popular Node js frameworks such as Express and other related technologies like MongoDB and WebSockets Node js books are an excellent resource for anyone who wants to learn how to build scalable

and efficient network applications with JavaScript They provide a comprehensive introduction to Node js and offer numerous examples and exercises that help readers gain hands on experience Whether you are a seasoned developer or just getting started with Node js there is a Node js book that can help you master this powerful technology   **Node.js Web Development** David Herron,2018-05-30 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 JavaScript is no longer just for browsers and this exciting introduction to Node js will show you how to build data intensive applications that run in real time

Node.Js High Performance Diogo Resende,2015-08-19 Take your application to the next level of high performance using the extensive capabilities of Node jsAbout This Book Analyze benchmark and profile your Node js application to find slow spots and push it to the limit by eliminating performance bottlenecks Learn the basis of performance analysis using Node js Explore the high performance capabilities of Node js along with best practicesIn DetailNode js is a tool written in C which allows you to use JavaScript on the server side High performance on a platform like Node js is knowing how to take advantage of every aspect of your hardware helping memory management act at its best and correctly deciding how to architect a complex application Do not panic if your applications start consuming a lot of memory instead spot the leak and solve it fast with Node js by monitoring and stopping it before it becomes an issue This book will provide you with the skills you need to analyze the performance of your application and monitor the aspects that can and should be Starting with performance analysis concepts and their importance in helping Node js developers eliminate performance bottlenecks this book will take you through development patterns to avoid performance penalties You will learn the importance of garbage collection and its behaviour and discover how to profile your processor allowing better performance and scalability You will then learn about the different types of data storage methods Moving on you will get to grips with testing and benchmarking applications to avoid unknown application test zones Lastly you will explore the limits that external components can impose in your application in the form of bottlenecks By following the examples in each chapter you will discover tips to getting better performing applications by avoiding anti patterns and stretching the limits of your environment as much as possible What You Will Learn Develop applications using well defined and well tested development patterns Explore memory management and garbage collection to improve performance Monitor memory changes and analyze heap snapshots Profile the CPU and improve your code to avoid patterns that force intensive processor usage Understand the importance of data and when you should cache information Learn to always test your code and benchmark when needed Extend your application s scope and know what other elements can influence performanceWho This Book Is ForThis book is for Node js developers who want a more in depth knowledge of the platform to improve the performance of their applications Whether you have a base Node js background or you are an expert who knows the garbage collector and wants to leverage it to make applications more robust the examples in this book will benefit you Style and approachThis is a practical guide to learning high

performance which even the least experienced developer will comprehend Small and simple examples help you test concepts yourself and easily adapt them to any application boosting its performance and preparing it for the real world **Node.js for Embedded Systems** Patrick Mulder,Kelsey Breseman,2016-10-10 How can we build bridges from the digital world of the Internet to the analog world that surrounds us By bringing accessibility to embedded components such as sensors and microcontrollers JavaScript and Node js might shape the world of physical computing as they did for web browsers This practical guide shows hardware and software engineers makers and web developers how to talk in JavaScript with a variety of hardware platforms Authors Patrick Mulder and Kelsey Breseman also delve into the basics of microcontrollers single board computers and other hardware components Use JavaScript to program microcontrollers with Arduino and Espruino Prototype IoT devices with the Tessel 2 development platform Learn about electronic input and output components including sensors Connect microcontrollers to the Internet with the Particle Photon toolchain Run Node js on single board computers such as Raspberry Pi and Intel Edison Talk to embedded devices with Node js libraries such as Johnny Five and remotely control the devices with Bluetooth Use MQTT as a message broker to connect devices across networks Explore ways to use robots as building blocks for shared experiences <u>Real-World Next.js</u> Michele Riva,2022-02-28 Learn how to use Next js for building web apps without compromising performance user experience and developer happiness Key FeaturesDevelop scalable web applications using Next jsUse 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 <u>Webcraft: Mastering the Digital Frontier</u> Rumi Aktar,2023-09-28 Embark on a transformative journey through the digital frontier with Web Alchemy Navigating the Digital Frontier This extraordinary book is your key to mastering the art and science of web development from the foundational elements of HTML and CSS to the enchanting realms of JavaScript sorcery server side conjuring and beyond Discover the secrets of crafting captivating web experiences ensuring accessibility for all fortifying your applications against cyber threats and creating adaptable responsive and even offline ready web applications that rival native apps With Web Alchemy you ll unlock the alchemical processes that turn code into captivating user experiences Whether you re a novice web adventurer or a seasoned webmaster this book offers a treasure trove of knowledge practical insights and hands on guidance to fuel your journey Join us in this quest to harness the web s transformative power and shape the digital world The web is your canvas and Web Alchemy is your spellbook It s time to forge your own path in the digital frontier <u>Modernization Techniques for IBM Power</u> Tim Simon,Henry Vo,Jordan Antonov,Marcelo Avalos Del Carpio,Ian Bellinfantie,Andre Casagrande,Carlo Castillo,Rafael Cezario,Paul Chapman,Rohit Chauhan,Bartlomiej Grabowski,Mithun H R,Hemraj Joshi,Niels Liisberg,Arnold Ness,Anil Patil,Matthew Radford,Sachin Sant,Mick Tarsel,Andy Youens,IBM Redbooks,2025-08-28 Recent global changes have impacted IT Organizations are accelerating digital transformation to support an increasingly always on world IT leaders are focused on modernizing critical processes and operations to gain a competitive advantage in this dynamic environment Application modernization updating applications to improve maintenance extension deployment and management is essential to meeting current and future needs It provides numerous business and technical benefits Modernizing existing enterprise applications enables a smoother migration to hybrid cloud offering the flexibility to run applications anywhere at any time A cloud native microservices approach maximizes the scalability and agility of the cloud Modernizing IBM Power allows new cloud native microservices to integrate with existing applications by using the platform s performance reliability and security This approach removes integration and productivity barriers enabling enhanced user experiences new applications and new business opportunities This IBM Redbooks publication provides a high level overview of modernization including key concepts and terminology to guide your modernization journey It explores the components and architectural layers of the IBM Power ecosystem demonstrating how they create an ideal platform for running mission critical applications The content is intended for business leaders architects and application developers **Getting Started with RethinkDB** Gianluca Tiepolo,2016-03-17 Absorb the knowledge required to utilize manage and deploy RethinkDB using Node js About This Book Make the most of this open source scalable database RethinkDB to ease the construction of web applications Run powerful queries using ReQL which is the most convenient language to manipulate JSON documents with Develop fully fledged real time web apps using Node js and RethinkDB Who This Book Is For Getting Started with RethinkDB is ideal for developers

who are new to RethinkDB and need a practical understanding to start working with it No previous knowledge of database programming is required although a basic knowledge of JavaScript or Node js would be helpful What You Will Learn Download and install the database on your system Configure RethinkDB s settings and start using the web interface Import data into RethinkDB Run queries using the ReQL language Create shards replicas and RethinkDB clusters Use an index to improve database performance Get to know all the RethinkDB deployment techniques In Detail RethinkDB is a high performance document oriented database with a unique set of features This increasingly popular NoSQL database is used to develop real time web applications and together with Node js it can be used to easily deploy them to the cloud with very little difficulty Getting Started with RethinkDB is designed to get you working with RethinkDB as quickly as possible Starting with the installation and configuration process you will learn how to start importing data into the database and run simple queries using the intuitive ReQL query language After successfully running a few simple queries you will be introduced to other topics such as clustering and sharding You will get to know how to set up a cluster of RethinkDB nodes and spread database load across multiple machines We will then move on to advanced queries and optimization techniques You will discover how to work with RethinkDB from a Node js environment and find out all about deployment techniques Finally we ll finish by working on a fully fledged example that uses the Node js framework and advanced features such as Changefeeds to develop a real time web application Style and approach This is a step by step book that provides a practical approach to RethinkDB programming and is explained in a conversational easy to follow style   Building Scalable Web Apps with Node.js and Express Yamini Panchal,Ravi Kumar Gupta,2024-06-24 TAGLINE Easy API Design Using Express js and Node js TypeScript KEY FEATURES Step by step instructions using TypeScript for efficient backend development on Node js enhancing code quality and maintainability Practical insights using Redis to implement efficient API caching methods optimizing performance and scalability Provides practical examples of API testing using Mocha and Chai ensuring robustness and reliability of the developed APIs DESCRIPTION Embark on a journey to become an expert in backend web development with this essential guide using Node js v20 Express js Redis and TypeScript The book covers foundational to advanced topics through one comprehensive example a project management system It ensures learning and application of skills in API caching with Redis API testing using Mocha and Chai and deployment on AWS This approach simplifies complex concepts and provides a practical learning trajectory With expert tips and best practices you ll create user friendly features like sign ups and project trackers Plus you ll learn how to make your apps faster with caching and add cool features like notifications Finally you ll ace testing and deploying your apps like an expert WHAT WILL YOU LEARN Explore TypeScript s power and versatility for developing backend using Node and Express Learn effective strategies for planning and structuring your application to ensure scalability and maintainability Dive deep into building REST APIs for user management project handling and task tracking Explore the implementation of API caching to boost performance and efficiency Develop a notification module to

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programming secure your applications and optimize performance for modern large scale systems Packed with practical examples and step by step guides this book is your blueprint for building fast efficient and scalable applications Join the ranks of top tech innovators using Node js and discover why it powers platforms like Netflix Uber and LinkedIn Start your journey today to master backend development and elevate your coding skills to new heights Perfect for JavaScript enthusiasts backend developers and anyone ready to embrace full stack development with Node js   *Real-Time Analytics* Byron Ellis,2014-07-21 Construct a robust end to end solution for analyzing and visualizing streaming data Real time analytics is the hottest topic in data analytics today In Real Time Analytics Techniques to Analyze and Visualize Streaming Data expert Byron Ellis teaches data analysts technologies to build an effective real time analytics platform This platform can then be used to make sense of the constantly changing data that is beginning to outpace traditional batch based analysis platforms The author is among a very few leading experts in the field He has a prestigious background in research development analytics real time visualization and Big Data streaming and is uniquely qualified to help you explore this revolutionary field Moving from a description of the overall analytic architecture of real time analytics to using specific tools to obtain targeted results Real Time Analytics leverages open source and modern commercial tools to construct robust efficient systems that can provide real time analysis in a cost effective manner The book includes A deep discussion of streaming data systems and architectures Instructions for analyzing storing and delivering streaming data Tips on aggregating data and working with sets Information on data warehousing options and techniques Real Time Analytics includes in depth case studies for website analytics Big Data visualizing streaming and mobile data and mining and visualizing operational data flows The book s recipe layout lets readers quickly learn and implement different techniques All of the code examples presented in the book along with their related data sets are available on the companion website

Node.js in Action Tim Oxley,Nathan Rajlich,TJ Holowaychuk,Alex Young,2017-08-16 Summary Node js in Action Second Edition is a thoroughly revised book based on the best selling first edition It starts at square one and guides you through all the features techniques and concepts you ll need to build production quality Node applications Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications About the Technology You already know JavaScript The trick to mastering Node js is learning how to build applications that fully exploit its powerful asynchronous event handling and non blocking I O features The Node server radically simplifies event driven real time apps like chat games and live data analytics and with its incredibly rich ecosystem of modules tools and libraries it s hard to beat About the Book Based on the bestselling first edition Node js in Action Second Edition is a completely new book Packed with practical examples it teaches you how to create high performance web servers using JavaScript and Node You ll master key design concepts such as asynchronous programming state management and event driven programming And you ll learn to put together MVC servers using Express and Connect design web APIs and set up the perfect production environment to build

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