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NODE.js

Professionell
hochperformante Software
entwickeln

Prof. Dr. rer. oec. G. Breda, SS 2016

SS 2016, Seite 1

Node Js Professionell Hochperformante Software Entwickeln

Pedro Teixeira



Node Js Professionell Hochperformante Software Entwickeln:

Node.js Robert Prediger, Ralph Winzinger, 2015-08-06 What is Node js and why should I care Lernen Sie die Charakteristiken und typischen Einsatzgebiete von Node js kennen Begleiten Sie uns im Umfeld von JavaScript und Node js durch den kompletten Entwicklungszyklus Develop Build Test Run Erleben Sie Node js in Aktion anhand einer Vielzahl kleiner Beispiele die typische Probleme und deren Lösung mit gängigen Tools und Frameworks zeigen Sammeln Sie ausreichend Hintergrundinformation und Best Practices um selbst zu entscheiden ob JavaScript und Node js the right tool for the job ist Extra E Book inside Es gibt nur wenige Sprachen die sich seit so langer Zeit so klar am Markt behaupten wie JavaScript Dies ist durchaus erstaunlich wenn man sich vor Augen hält wie der Werdegang von JavaScript aussieht und wie schlecht sein Ruf war Mit Node js und der darunter liegenden V8 Engine von Google ist mehr entstanden als nur eine hoch performante Server Runtime Wir können jetzt auf ein riesiges System von Modulen zurückgreifen und auf professionelle Entwicklungswerkzeuge die den Vergleich mit Tools aus dem Enterprise Umfeld nicht scheuen müssen Wenn massiver Datenverkehr behandelt werden muss ist Node js eine valide Option weil es Server viel besser auslasten kann als traditionelle Systeme Es kann mehr Leistung auf vorhandener Hardware erbringen oder den selben Ansturm mit weniger Ressourcen abarbeiten Führt man sich die bereits heute sichtbaren Auswirkungen der Digitalisierung vor Augen so ist unstrittig dass es immer weniger attraktiv sein wird Systeme mit einem großen Resource Footprint zu betreiben Node js und JavaScript hingegen können genau hier ihre Fähigkeiten ausspielen und werden sicherlich noch lange im Markt zu finden sein

AUS DEM INHALT Tooling IDEs und Hosting NPM Testing Debugging Monitoring Dateien Streams Datenbanken REST SOAP Services Web Frontends native Plugins Deployment Hosting Architektur Performanceoptimierung Systemvoraussetzungen für E Book inside Internet Verbindung und Adobe Reader *Programmierparadigmen* Christian Wagenknecht, 2016-05-23 Im Verlaufe ihres Berufslebens müssen sich Informatiker immer wieder in neue Programmier- und Fachsprachen einarbeiten Der Erfolg dieses fortwährenden Lernprozesses wird zu einem erheblichen Maße durch den Stand des Wissens über Programmierstile und damit verbundene Denkformen bestimmt Paradigmenwissen ist also von besonderer Bedeutung und muss frühzeitig im Studium verankert werden Das vorliegende Buch verwendet für die Vermittlung dieses Wissens einen völlig neuen didaktischen Ansatz Es wird nur eine einzige Sprache benutzt in der sämtliche Paradigmen ausgedrückt und weitere Grundkonzepte der Programmierung thematisiert werden können Dieses einführende Lehrbuch ist besonders für Informatik Studierende der ersten Semester an Fachhochschulen Universitäten und Berufsakademien geeignet Es kann ebenso in Fortbildungskursen und an Schulen Verwendung finden *Professional Node.js* Pedro Teixeira, 2012-10-01 Learn to build fast and scalable software in JavaScript with Node js Node js is a powerful and popular new framework for writing scalable network programs using JavaScript This no nonsense book begins with an overview of Node js and then quickly dives into the code core concepts and APIs In depth coverage pares down the essentials to cover

debugging unit testing and flow control so that you can start building and testing your own modules right away Covers node and asynchronous programming main concepts Addresses the basics modules buffers events and timers Explores streams file systems networking and automated unit testing Goes beyond the basics and shares techniques and tools for debugging unit testing and flow control If you already know JavaScript and are curious about the power of Node js then this is the ideal book for you

Node.js Design Patterns Mario Casciaro, Luciano Mammino, 2016-07-18 Get the best out of Node js by mastering its most powerful components and patterns to create modular and scalable applications with ease About This Book Create reusable patterns and modules by leveraging the new features of Node js Understand the asynchronous single thread design of node and grasp all its features and patterns to take advantage of various functions This unique guide will help you get the most out of Node js and its ecosystem Who This Book Is For The book is meant for developers and software architects with a basic working knowledge of JavaScript who are interested in acquiring a deeper understanding of how to design and develop enterprise level Node js applications Basic knowledge of Node js is also helpful to get the most out of this book What You Will Learn Design and implement a series of server side JavaScript patterns so you understand why and when to apply them in different use case scenarios Become comfortable with writing asynchronous code by leveraging constructs such as callbacks promises generators and the async await syntax Identify the most important concerns and apply unique tricks to achieve higher scalability and modularity in your Node js application Untangle your modules by organizing and connecting them coherently Reuse well known techniques to solve common design and coding issues Explore the latest trends in Universal JavaScript learn how to write code that runs on both Node js and the browser and leverage React and its ecosystem to implement universal applications In Detail Node js is a massively popular software platform that lets you use JavaScript to easily create scalable server side applications It allows you to create efficient code enabling a more sustainable way of writing software made of only one language across the full stack along with extreme levels of reusability pragmatism simplicity and collaboration Node js is revolutionizing the web and the way people and companies create their software In this book we will take you on a journey across various ideas and components and the challenges you would commonly encounter while designing and developing software using the Node js platform You will also discover the Node js way of dealing with design and coding decisions The book kicks off by exploring the basics of Node js describing its asynchronous single threaded architecture and the main design patterns It then shows you how to master the asynchronous control flow patterns and the stream component and it culminates into a detailed list of Node js implementations of the most common design patterns as well as some specific design patterns that are exclusive to the Node js world Lastly it dives into more advanced concepts such as Universal Javascript and scalability and it's meant to conclude the journey by giving the reader all the necessary concepts to be able to build an enterprise grade application using Node js Style and approach This book takes its intended readers through a comprehensive explanation to create a scalable and efficient real time server side apps

Mastering Node.js Sandro Pasquali, Kevin Faaborg, 2017-12-29 Node.js with its strong features and ability to write server as well as client side code with JavaScript has become a popular choice amongst developers for building powerful web applications. This book is a deep dive into showing facets of Node.js which are helpful for creating highly concurrent and scalable real time applications.

Node.js & Co Golo Roden, 2012 *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 Mongoose and Mongooskin. 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 Mongoose 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.

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 enrich user interaction and experience within your application Master the art of thoroughly testing your APIs using industry standard tools and methodologies Acquire skills and best practices for deploying your application ensuring smooth operation in production environments

WHO IS THIS BOOK FOR This book is tailored for software developers programmers and web developers eager to advance their skills in Node.js TypeScript and Express.js Whether you're a seasoned developer looking to deepen your expertise or a tech enthusiast keen on exploring the latest trends in web development this book provides the knowledge and tools to elevate your proficiency in the Node.js ecosystem

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Pro Node.js for Developers Colin J. Ihrig, 2014-01-18 Since its creation in 2009 Node.js has grown into a powerful and increasingly popular asynchronous development framework for creating highly scalable network applications using JavaScript Respected companies such as Dow Jones and LinkedIn are among the many organizations to have seen Node.js potential and adopted it into their businesses *Pro Node.js for Developers* provides a comprehensive guide to this exciting new technology We introduce you to Node what it is why it matters and how to set it up before diving deeply into the key concepts and APIs that underpin its operation Building upon your existing JavaScript skills you'll be shown how to use Node.js to build both Web and Network based applications to deal with data sources capture events and deal with child processes to create robust applications that will work well in a wide range of circumstances Once you've mastered these skills we'll go further teaching you more advanced software engineering skills that will give your code a professional edge You'll learn how to create easily reusable modules that will save you time through code reuse to log and debug your applications quickly and effectively and to write code that will scale easily and reliably as the demand for your application grows

Deploying Node.js Sandro Pasquali, 2015-07-23 Node.js is a popular choice for teams that need to design build test deploy maintain and monitor large scale distributed systems Starting with a detailed overview of the Node.js architecture this book covers topics that will help in application development testing deployment and maintenance You will learn about concurrency event loops callbacks and streams Furthermore step by step instructions on deploying applications to providers such as DigitalOcean and Heroku will be provided including information on setting up load balancers and proxies Message queues and other techniques for managing state and session data at scale will also be covered A series of examples on deploying your Node.js applications in production environments are provided including a discussion on setting up continuous deployment and integration for your team Popular tools for testing deploying building and monitoring Node.js applications are covered helping you get up and running quickly

Building Scalable

Apps with Redis and Node.js Joshua Johanan, 2014-09-25 If the phrase scalability sounds alien to you then this is an ideal book for you You will not need much Node js experience as each framework is demonstrated in a way that requires no previous knowledge of the framework You will be building scalable Node js applications in no time Knowledge of JavaScript is required

Node.js for Beginners Ulises Gascón, 2024-05-10 Build your first production grade web app from scratch using Node js Express MongoDB authentication and testing with guidance from a member of the Express Technical Committee as well as a Node js core collaborator and releaser Key Features Learn JavaScript async programming and event driven architectures in Node js Discover best practices for secure deployment and testing of Node js apps Build a feature rich web app from scratch using MongoDB Express js and passport js including testing Purchase of the print or Kindle book includes a free PDF eBook Book Description Node js revolutionizes server side JavaScript development and empowers developers to build efficient scalable and versatile applications across a range of use cases This book is written by a Node js core collaborator and releaser and is the only book for beginners on Node js It takes you on a progressive learning path that will give you the skills needed to leverage Node js You ll learn Node js fundamentals and refresh your knowledge of JavaScript before transitioning to the development of modern web applications using Node js Express js and MongoDB You ll get hands on with complex topics such as asynchronous programming npm libraries event driven patterns for HTTP servers RESTful API and JSON Web Tokens The final chapters will walk you through the deployment process offering insights into various strategies including bare metal setups virtual machines and containerization with Docker You ll also be guided through the use of Process Manager 2 PM2 for efficient process management By the end of this Node js book you ll have the skills to craft test and deploy Node js web applications confidently and use this powerful stack in your day to day projects What you will learn Build solid and secure Node js applications from scratch Discover how to consume and publish npm packages effectively Master patterns for refactoring and evolving your applications over time Gain a deep understanding of essential web development principles including HTTP RESTful API design JWT authentication authorization and error handling Implement robust testing strategies to enhance the quality and reliability of your applications Deploy your Node js applications to production environments using Docker and PM2 Who this book is for This book is for developers eager to learn Node js swiftly and utilize it for web app development Front end developers looking to delve into back end development or become full stack developers using Node js will also benefit from this book s comprehensive coverage of topics Before you get started with this book you ll need to be familiar with the basics of coding JavaScript programming or another language Git and or GitHub and front end development as these topics aren t covered in the book

Mastering Node.js Sandro Pasquali, Kevin Faaborg, 2017-12-29 Expert techniques for building fast servers and scalable real time network applications with minimal effort rewritten for Node js 8 and Node js 9 Key Features Packed with practical examples and explanations Mastering Node js contains everything you need to take your applications to the next level Unleash the full potential of Node

js 9 to build real time and scalable applications Gain in depth knowledge of asynchronous programming event loops and parallel data processing Explore Node s innovative event non blocking design and build professional applications with the help of detailed examples Book Description Node js a modern development environment that enables developers to write server and client side code with JavaScript thus becoming a popular choice among developers This book covers the features of Node that are especially helpful to developers creating highly concurrent real time applications It takes you on a tour of Node s innovative event non blocking design showing you how to build professional applications This edition has been updated to cover the latest features of Node 9 and ES6 All code examples and demo applications have been completely rewritten using the latest techniques introducing Promises functional programming async await and other cutting edge patterns for writing JavaScript code Learn how to use microservices to simplify the design and composition of distributed systems From building serverless cloud functions to native C plugins from chatbots to massively scalable SMS driven applications you ll be prepared for building the next generation of distributed software By the end of this book you ll be building better Node applications more quickly with less code and more power and know how to run them at scale in production environments What you will learn Build an Electron desktop app using Node that manages a filesystem Explore Streams and understand how they apply to building networked services Develop and deploy an SMS driven customer service application Use WebSockets for rapid bi directional communication Construct serverless applications with Amazon Lambda Test and debug with headless browsers CPU profiling Mocha Sinon and more Scale applications vertically and horizontally across multiple cores and web services Who this book is for This book is targeted at JavaScript developers who want to take an in depth look at the latest Node js framework to create faster scalable real time backend applications Basic JavaScript programming knowledge and also some previous Node js development experience are mandatory to get the best out of this book

Ultimate Node.js for Cross-Platform App Development Ramesh Kumar ,2024-02-06 Unleash the Power of Node js for Building Enterprise Grade Scalable Server Side Applications KEY FEATURES Master the essentials of building real time applications with a focus on Node js Express js Mongoose Socket IO Winston logging and key middleware Learn to create lightweight and scalable backend servers ensuring optimal performance for production ready applications Stay ahead of the curve by gaining proficiency in Node js positioning yourself for success in a rapidly evolving technological landscape Quick path to Node js expertise providing practical examples and insights to prepare you for the current and future demands of the tech landscape DESCRIPTION Unlock the full potential of Node js for modern web development with this comprehensive handbook to developing applications and services The book will cover the fundamentals to advanced techniques explore the intricacies of building powerful applications You will master Express server creation develop RESTful APIs with efficient routing and dive into MongoDB for seamless data persistence It will uncover the nuances of template engines middleware and robust authentication methods Leverage Socket IO for real time capabilities and adeptly handle

errors with effective logging The projects will double as versatile boilerplates for kickstarting your own development endeavours In the later chapter you will learn Test Driven Development with Mocha gain insights into debugging and perfect the art of building and deploying Node js applications Each example in the book adheres to common best practices providing valuable insights to help you avoid common pitfalls Designed as both a learning resource and a reference guide this book equips you with the knowledge to tackle challenging problems at any stage of development

WHAT WILL YOU LEARN

Develop a robust Express server to streamline your development process Delve deep into creating RESTful APIs with efficient routing techniques Master the utilization of template engines to elevate your project sophistication Enhance your applications by incorporating middleware for extended capabilities Harness the power of Socket IO to add dynamism and interactivity to your projects Implement Test Driven Development TDD using Mocha to ensure code reliability Grasp the intricacies of constructing and deploying Node js applications effectively Explore the evolving landscape of Node js staying at the forefront of emerging web development trends

WHO IS THIS BOOK FOR Perfect for beginners this book demystifies Node js offering a deep dive into its architecture and core concepts Loaded with practical examples it equips you with essential knowledge By the end you ll confidently build a live application on the Node js stack

Basic familiarity with JavaScript and web applications is recommended before diving in

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Instant Node.js Starter Pedro Teixeira, 2013 Get to grips with a new technology understand what it is and what it can do for you and then get to work with the most important features and tasks A simple and easy to follow starter approach will help guide the readers through how to develop a real time web application using Node js with the help of a sample project

Instant NodeJS Starter is great for web developers who know JavaScript and are curious about Node js and want to understand and be able to quickly start creating their first applications on it This book is also recommended for people with experience in network programming and event driven programming to be able to get started using this exciting technology

Node.js Design Patterns Luciano Mammino, Mario Casciaro, 2025-09-25 An essential read for any JavaScript developer take full advantage of the Node js platform and build reliable scalable web applications using design patterns Purchase of the print or Kindle book includes a free eBook in PDF format Free with your book DRM free PDF version access to Packt s next gen Reader Email sign up and proof of purchase required

Key Features Gain a deep understanding of the Node js philosophy its core components and the solutions in its ecosystem Avoid common pitfalls in applying proven patterns to create robust maintainable Node js applications Enhance your development skills through a wealth of real world examples and case studies

Book Description Node js underpins much of modern web development reliably powering APIs and full stack apps across all

industries Authors Luciano Mammino and Mario Casciaro offer a practical guide that unpacks the JavaScript runtime so you can write reliable high performance Node.js apps Building on the highly rated third edition this new edition adds fresh case studies and the latest Node.js developments newer APIs and libraries ESM improvements practical security and production tips and guidance on using Node.js with TypeScript It also introduces a new chapter on testing that gives you a full introduction to testing philosophy and practical guidance on writing unit integration and end to end tests giving you the confidence to write functional stable and reliable code Real world end to end examples throughout the book show how to build microservices and distributed systems with Node.js integrating production proven technologies such as Redis RabbitMQ LevelDB and ZeroMQ the same components you'll find in scalable deployments at companies of all sizes End of chapter exercises consolidate your understanding By the end of this Node.js book you'll have the design patterns mindset and hands on skills every serious Node.js professional needs to confidently architect robust efficient and maintainable applications What you will learn Understand Node.js basics and its async event driven architecture Write correct async code using callbacks promises and async await Harness Node.js streams to create data driven processing pipelines Implement trusted software design patterns for production grade applications Write testable code and automated tests unit integration E2E Use advanced recipes caching batching async init offload CPU bound work Build and scale microservices and distributed systems powered by Node.js Who this book is for This book is for you if you're a developer or software architect with basic knowledge of JavaScript and Node.js and want to get the most out of these technologies to maximize productivity design quality and scalability It'll help you level up from junior to senior roles This book is a tried and tested reference guide for readers at all levels Even those with more experience will find value in the more advanced patterns and techniques presented You're expected to have an intermediate understanding of web application development databases and software design principles

Learning Node.js Marc Wandschneider, 2013-06-20 Learning Node.js A Hands On Guide to Building Web Applications in JavaScript Node.js makes it far easier to create fast compact and reliable web network applications and web servers and is rapidly becoming indispensable to modern web developers Learning Node.js brings together the knowledge and JavaScript code you need to build master the Node.js platform and build server side applications with extraordinary speed and scalability You'll start by installing and running Node.js understanding the extensions it uses and quickly writing your first app Next building on the basics you'll write more capable application servers and extend them with today's most powerful Node.js tools and modules Finally you'll discover today's best practices for testing running Node.js code on production servers and writing command line utilities Throughout the book author Marc Wandschneider teaches by walking you line by line through carefully crafted examples demonstrating proven techniques for creating highly efficient applications and servers Build Node.js solutions that leverage your current JavaScript skills Master Node.js nonblocking IO and async programming Handle more requests and increase your application's flexibility Use and write your own modules Perform

common JSON web server tasks Use browsers to generate pages on the fly via Ajax calls and template libraries Simplify development with the express framework Create database back ends using popular NoSQL and relational databases Deploy and run Node js apps on Unix OS X or Windows servers Take advantage of multiprocessor hardware Support virtual hosts and SSL HTTPS security Test Node js programs that mix synchronous async and RESTful server API functionality

Advanced Node.js Development Andrew Mead,2018-03-30 Takes you through creating your own API building a full real time web app securing your Node systems and practical applications of the latest Async and Await technologies It maps out everything in a comprehensive easy to follow package designed to get you up and running quickly Key Features Entirely project based and practical Explains the why of Node js features not just the how providing with a deep understanding and enabling you to easily apply concepts in your own applications Covers the full range of technologies around Node js npm MongoDB version control with Git and many more Book Description Advanced Node js Development is a practical project based book that provides you with all you need to progress as a Node js developer Node is a ubiquitous technology on the modern web and an essential part of any web developer s toolkit If you re looking to create real world Node applications or you want to switch careers or launch a side project to generate some extra income then you re in the right place This book was written around a single goal turning you into a professional Node developer capable of developing testing and deploying real world production applications There s no better time to dive in According to the 2018 Stack Overflow Survey Node is in the top ten for back end popularity and back end salary This book is built from the ground up around the latest version of Node js version 9 x x You ll be learning all the cutting edge features available only in the latest software versions This book delivers advanced skills that you need to become a professional Node developer Along this journey you ll create your own API you ll build a full real time web app and create projects that apply the latest Async and Await technologies Andrew Mead maps everything out for you in this book so that you can learn how to build powerful Node js projects in a comprehensive easy to follow package designed to get you up and running quickly What you will learn Develop test and deploy real world Node js applications Master Node js by building practical working examples Use awesome third party Node modules such as MongoDB Mongoose Socket io and Express Create real time web applications Explore async and await in ES7 Who this book is for This book is for anyone looking to launch their own Node applications switch careers or freelance as a Node developer You should have a basic understanding of JavaScript in order to follow this book This book follows directly on from Learning Node js Development but more advanced readers can benefit from this book without having read the first part Beginning API Development with Node.js Anthony Nandaa,2018-07-24 Using the same framework to build both server and client side applications saves you time and money This book teaches you how you can use JavaScript and Node js to build highly scalable APIs that work well with lightweight cross platform client applications It begins with the basics of Node js in the context of backend development and *Scaling Your Node.js Apps* Fernando Doglio,2018-11-28 Take your Node js

application into production ready status capable of scaling up to whatever your needs might be You ll discover that architecting for successful popular sites is an essential tool of any professional Node js developer and learning to scale your own applications is a great place to start Using this book you will learn when to scale what factors should trigger scaling and what architectural techniques are best suited for scaling You will also explore common pitfalls that arise when scaling a Node js application and solutions to correct them Including analyses of success cases at the largest scale companies such as Netflix and Paypal this book will get you started with scaling in no time at all What You ll Learn Determine what factors should trigger the need to scale Discover different architectural patterns that lend themselves to scaling Resolve problems that arise when scaling up a Node js application Monitor a platform in order to understand when to start scaling Who This Book Is For The main audience for this book are Node js developers with a mid level understanding of the technology Novice Node users will also benefit from the coverage of generic scaling related topics

Ignite the flame of optimism with Crafted by is motivational masterpiece, **Node Js Professionell Hochperformante Software Entwickeln** . In a downloadable PDF format (*), this ebook is a beacon of encouragement. Download now and let the words propel you towards a brighter, more motivated tomorrow.

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Node Js Professionell Hochperformante Software Entwickeln Introduction

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