

# Jose Ruben Ochoa

## Senior Software Engineer

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### SUMMARY

Experienced Senior Software Engineer with over 10 years of expertise in designing and developing scalable, resilient distributed systems. Proficient in multiple programming languages, including JavaScript, Ruby, TypeScript, Java, PHP, Python, C#, and Kotlin, as well as modern frameworks like React, Angular, Vue.js, Next.js, Nuxt.js, Spring Boot, Laravel, Django, and .NET. Skilled in leveraging cloud platforms such as AWS and Azure, implementing microservices architectures, and working with both SQL and NoSQL databases. Extensive experience with tools and technologies like Docker, Kubernetes, and Kafka. Proven success in leading design sessions, mentoring development teams, and establishing best practices within engineering organizations.

### SKILLS

- Languages: JavaScript, TypeScript, PHP, Python, Java, Ruby, C#, C++, C, SQL, Go, Kotlin, Rust, Scala, Groovy, PL/SQL, XML, Langchain.js, Swift
- Frontend Development: React.js, Expo, Angular, Vue.js, Next.js, Nuxt.js, Tailwind CSS, Bootstrap, HTML5, CSS3, SASS, LESS, Responsive Web Design, Redux, NgRx, Flutter, Dart, Three.js, WebRTC, WebGL, TRPC, jQuery, React Native, XHTML, Blazor
- Backend Frameworks & Development: Node.js, Express.js, NestJS, ASP.NET, .NET Core, Laravel, Django, Rails, Spring Boot, Flask, Symfony, Hibernate, MVC, Tomcat, JBoss, Apache, Koa, FastAPI, FeathersJS
- APIs & Web Services: REST API, GraphQL, Apollo Server, SOAP, WSDL, gRPC, Swagger/OpenAPI, HL7, HIPAA Compliance, Lyniate Rhapsody, EDI
- Database Management: MySQL, MongoDB, Elasticsearch, PostgreSQL, MSSQL, MariaDB, Oracle, Snowflake, Cassandra, SQL Server, Neo4j, Redis, Clickhouse
- Cloud Platforms & Services: AWS (Lambda, S3, ElastiCache, API Gateway, DynamoDB, SQS, SNS, RDS, AWS CDK), Azure (DevOps, Azure Functions, App Service), DigitalOcean, Supabase, Vercel.
- DevOps & CI/CD: Docker, Jenkins, Kubernetes, GitHub Actions, Terraform, NGINX, Maven, Harness, ANT
- Machine Learning & MLOps: TensorFlow, PyTorch, Spark, NLP Model Development, LLMs, Pandas, Numpy, AI Notebooks, Model Deployment, Workflow Automation
- Version Control & Collaboration: Git, Bitbucket, GitLab, SVN, Jira, Confluence, Slack
- Testing & Build Tools: Mocha, Jasmine, Jest, Cucumber, Cypress, JUnit, TestNG, Playwright, Puppeteer, Webpack, Grunt, Gulp, Nx

### PROFESSIONAL EXPERIENCE

#### Senior Software Engineer

Olivine, Inc. | Berkeley, CA | Sep 2023 – Jul 2025

- Led architecture, design, and development of 30+ new features.
- Built and maintained microservice-based architectures using Java and Spring Boot.
- Migrated legacy Java monolithic applications to modern Spring Boot-based microservices.
- Developed event-driven systems using Java and message brokers like Apache Kafka and RabbitMQ for asynchronous data processing.
- Scoped and built distributed systems with Java, Kotlin, and C#.
- Engineered data transformation workflows with Rhapsody for streamlined communication between disparate healthcare applications, while improving data consistency and reducing processing time.
- Architected and implemented access controls and auditing mechanisms to protect sensitive patient information, in full compliance with HIPAA regulations.
- Automated deployment processes for Laravel applications with Jenkins, while reducing release times and minimizing manual errors.

- Developed secure web services with SOAP and JSON.
- Developed dynamic Blazor components for interactive web applications, while leveraging C# for client-side execution, improving application performance.
- Built secure, HIPAA-compliant RESTful APIs in .NET to enable safe data exchange in healthcare applications.
- Architected event-driven microservices with Spring Boot, Kafka, and Docker.
- Designed and optimized MS T-SQL queries and stored procedures to enhance data retrieval and manipulation.
- Managed cloud infrastructure on AWS and Azure for ensuring scalable solutions for web applications.
- Developed and implemented infrastructure-as-code solutions using AWS CDK to automate the deployment of cloud resources.
- Scoped and built distributed systems with Java, Kotlin, and C#.
- Designed full-stack solutions using JavaScript, TypeScript frameworks alongside back-end technologies like PHP Laravel, Python Django, and Node.js.
- Developed complex, responsive front-end applications using Angular, while utilizing NgRx for robust state management.
- Streamlined Angular application performance with NgRx by implementing centralized state handling.
- Enhanced application responsiveness and UX in Angular-based applications by leveraging NgRx effects for handling asynchronous data operations seamlessly.
- Built and integrated complex backend workflows in Laravel, allowed seamless communication with external services.
- Developed dynamic, responsive front-end interfaces with Vue.js and Nuxt.js.
- Streamlined development processes by creating reusable React components for speeding up development cycles by 25%, ensuring consistent UI design.
- Optimized database operations in PostgreSQL, MySQL, and MongoDB by focusing on query optimization.
- Designed and implemented mock services in TypeScript to simulate complex API responses, supported frontend and QA teams.
- Integrated Expo's push notification services to improve user engagement.
- Built and optimized RESTful APIs for data exchange between front-end and back-end services.
- Managed state across large-scale React apps with Redux and Context API to enhance data flow for an e-commerce platform.
- Enhanced front-end performance through lazy loading, code splitting, and optimized GraphQL queries.
- Integrated HL7 messages in disease surveillance systems, which enabled efficient reporting of lab results and patient data.
- Applied secure and scalable healthcare data integration solutions using Lyniate Rhapsody to enable interoperability across EHR systems with HL7 and FHIR standards.
- Utilized functional programming paradigms in TypeScript to enhance code readability and reduce side effects, improved maintainability and predictability of API services.
- Configured RabbitMQ for message routing across distributed services.
- Utilized Docker and Kubernetes for container orchestration.
- Automated operational tasks using Unix and Python scripting.
- Leveraged Git and GitHub for version control, while enhancing team collaboration.
- Validated API behavior using Postman and automated testing suites.
- Expanded test coverage using Cypress and Jest, which improved quality assurance and reducing regression bugs.
- Managed source code with SVN and Git, while implementing best practices for version control and branching strategies.
- Automated cloud provisioning with Terraform and Azure Bicep.
- Managed cloud infrastructure on AWS and Azure for ensuring scalable solutions for web applications.
- Configured and maintained Apache Tomcat servers to ensure optimal performance for web applications.
- Led development of an e-commerce platform in ASP.NET, which resulted in a 20% increase in sales conversions.
- Designed and implemented infrastructure-as-code solutions using AWS CDK to automate the deployment of cloud resources.
- Integrated third-party services like payment gateways and analytics tools into Ruby on Rails applications.
- Promoted continuous improvement through technical code reviews, while refactoring to reduce technical debt.
- Drove projects using Azure DevOps for CI/CD pipelines, issue tracking with Jira, and operational support via Remedy.

## Senior Full Stack Developer

DesignsLegend | Dallas, TX | Apr 2021- Aug 2023

- Optimized front-end performance using JavaScript, TypeScript, CSS, and frameworks like Next.js, React, Angular, and Vue.js.
- Built scalable Angular applications with NgRx to manage complex states and improved frontend performance.
- Developed reusable React components, while maintaining UI consistency and speeding up development cycles.
- Implemented Redux and Context API for state management in complex React applications.
- Built and deployed mobile applications using Expo and React Native for cross-platform development.
- Enhanced mobile app responsiveness by optimizing asset loading and data handling in Expo.
- Collaborated on implementing Ant Design components in React for cohesive UI/UX.
- Developed dynamic, responsive front-end interfaces with Vue.js and Nuxt.js.

- Enhanced front-end performance with lazy loading, code splitting, and GraphQL optimization.
- Utilized Tailwind CSS for responsive, mobile-first UI design, which improved development speed.
- Built scalable web applications using the Turbo Repo Framework.
- Built robust, reactive systems with Spring Boot in Java, while integrating seamlessly with external services through RESTful APIs.
- Developed scalable, back-end services and APIs using Java, while ensuring high performance and reliability for distributed systems.
- Streamlined application efficiency by leveraging Kotlin's coroutines for handling asynchronous operations seamlessly.
- Built full-stack applications integrating Java Spring Boot with React and Angular for seamless UX.
- Built and optimized business and data access layers in C# to streamline backend operations and data processing.
- Architected and integrated Conversational AI bots using Kore.ai, while focusing on web and IVR channel development, with strong knowledge of NLU/NLP for training and tuning bots.
- Built cloud-based applications using microservices in Golang and Python with Docker and Kubernetes.
- Developed API endpoints using Kotlin integrated with Ruby on Rails services.
- Built and optimized RESTful APIs with Flask for fintech applications in microservices environments.
- Led the integration of LLMs and RAG systems to optimize the performance and scalability of AI-driven educational products.
- Led the design and implementation of scalable AI-driven features for web and mobile platforms, while leveraging advanced LLMs and Langchain.js.
- Designed a customer insights platform using Neo4j, enabled advanced relationship mapping for over 10,000 entities.
- Integrated and maintained healthcare data exchange processes using HL7 and FHIR standards.
- Engineered and deployed microservices using Lyniate Rhapsody to manage data transformation workflows, while enhancing communication between disparate healthcare applications.
- Built real-time health data pipelines using HL7 standards to streamline the integration of lab information systems with public health registries.
- Built Kafka-based real-time streaming for financial transaction processing.
- Leveraged AWS CDK to set up and manage AWS services such as EC2, S3, Lambda, and RDS, while ensuring scalability and security for backend services.
- Managed cloud infrastructure on AWS and Azure to ensure scalable web solutions.
- Migrated legacy systems to AWS Lambda and DynamoDB, reduced costs, while enhancing processing.
- Automated infrastructure provisioning with Terraform for consistent deployment.
- Led the development of compliance-focused SaaS tools, optimized workflows for regulatory adherence.
- Applied secure coding practices in JavaScript, Node.js, PHP, and Django projects to protect against vulnerabilities.
- Built secure, HIPAA-compliant RESTful APIs in Django for healthcare applications.
- Implemented role-based access control and secure authentication in Laravel applications to enhance user security.
- Applied advanced design patterns like MVC and API Gateway, while ensuring maintainable code.
- Developed custom .NET-based test automation frameworks, while reducing manual testing by 50% and accelerating deployment cycles.
- Developed automation test frameworks using Selenium and Java for various web applications.
- Designed and implemented automation testing frameworks with Selenium and Core Java.
- Introduced Jest and Cypress testing frameworks, which reduced bugs by 30% with automated testing.
- Applied TDD principles using Jest and Mocha in TypeScript projects.
- Mentored junior developers in writing efficient unit tests to improve coding standards.
- Developed complex queries and stored procedures in T-SQL to efficiently extract, manipulate, and aggregate data from relational databases, optimizing query performance.
- Created and optimized T-SQL scripts for data migration and ETL processes, while improving data processing efficiency by 30%.
- Optimized database operations and indexing for PostgreSQL, MySQL, MongoDB, and Oracle for scalable data handling.
- Integrated third-party APIs into ASP.NET applications, which improved functionality and extended system capabilities.
- Built RESTful APIs with Spring MVC and Spring Boot, enhanced communication with GraphQL.
- Managed REST and SOAP Web Services integration through lifecycle project management.
- Integrated Apollo Client with GraphQL APIs in React to optimize data fetching and reduce payload size.
- Developed and maintained CI/CD pipelines with Kubernetes for streamlined deployments.
- Built and deployed cloud-based microservices applications using Docker and Kubernetes.
- Automated deployment processes with Jenkins, reducing release times and minimizing manual errors.
- Built scalable student management features using Node.js and PostgreSQL.
- Built scalable applications in Ruby on Rails for finance and SaaS sectors, while focusing on maintainable code.

- Configured and maintained WebLogic and WebSphere for high-reliability applications.
- Developed interactive SPAs using Backbone.js and modular front-end code.
- Collaborated with product managers and business stakeholders to design and implement Salesforce applications that streamlined operations.

## Full Stack Developer

Infuse.us | Bothell, WA | Jan 2018 – Mar 2021

- Developed responsive UI components using Tailwind CSS for ensuring a consistent design system across web applications.
- Integrated Ant Design components in a client-facing dashboard project for a polished, enterprise-grade UI/UX.
- Developed and implemented responsive Web Forms using ASP.NET, C#, and HTML for enhanced user interaction.
- Optimized front-end interfaces using JavaScript, XHTML, and CSS for improved user experience and performance.
- Integrated Turbo with React, Angular, and Vue.js for dynamic user experiences.
- Developed scalable user interfaces for cross-platform functionality in web and mobile applications.
- Conducted cross-browser testing to ensure functionality consistency, reducing support issues by 25%.
- Developed scalable web applications using JavaScript, React, Node.js, and Python frameworks like Django and Flask, focusing on RESTful APIs.
- Architected high-performance backend services with Go, Django, and Node.js for scalability and reliability, integrated with frontend frameworks and databases.
- Built robust, reactive systems with Spring Boot in Java, while integrating seamlessly with external services through RESTful APIs.
- Developed scalable, back-end services and APIs using Java, ensuring high performance and reliability for distributed systems.
- Built scalable, back-end services and APIs using Laravel to ensure seamless data communication between front-end and back-end.
- Architected a microservices architecture in .NET, improving system scalability and reducing downtime by 30%.
- Built and deployed Java applications on AWS and Kubernetes using Docker for containerization.
- Optimized backend services in PostgreSQL, MySQL, and MongoDB.
- Wrote and optimized complex MSSQL stored procedures and functions, enhancing performance and reliability of claims and insurance systems.
- Architected a fintech application database, optimizing query execution times by 45%.
- Migrated legacy databases to cloud-based solutions, increasing system capacity by 50%.
- Built data pipelines with Python, Pandas, Numpy, and Spark SQL for high-volume data processing.
- Managed large-scale data processing projects using TensorFlow, PyTorch, Spark, and MLlib.
- Deployed web applications on Apache Tomcat, focusing on security and performance.
- Automated CI/CD pipelines with Jenkins, GitHub Actions, and AWS for seamless deployments.
- Applied Azure Kubernetes Service to orchestrate microservices.
- Deployed Java applications on AWS and Kubernetes using Docker for containerization.
- Automated testing processes with Pytest, integrating with CI/CD pipelines to validate code quality.
- Designed a scalable .NET test automation framework, reducing manual testing efforts by 50%.
- Built custom Laravel modules to streamline business processes, improving efficiency by 25%.
- Developed scalable RESTful APIs using Laravel and integrated REST APIs for AI training data input, improving efficiency.
- Designed scalable APIs with GraphQL and TRPC to streamline developer workflows and improve system performance.
- Streamlined CI/CD processes with Jenkins to accelerate delivery cycles and reduce manual tasks.
- Managed version control with SVN and integrated changes across teams.
- Led a team to build an inventory management system in .NET, improving departmental efficiency by 40%.
- Created and maintained Confluence documentation, improving knowledge sharing and reducing onboarding times.
- Migrated a legacy system to AWS Lambda, reducing costs and improving processing.

## Frontend Developer

Jelvix | Seattle, WA | Oct 2015 – Nov 2017

- Developed responsive websites using JavaScript and TypeScript frameworks like React.js, Angular, Vue.js, and Svelte and increased client website traffic by 20%.
- Built scalable, modular web applications using JavaScript, TypeScript, and Node.js to enhance user interaction and improved application performance.
- Improved system performance with lazy loading, code splitting, and dependency injection in Angular and React applications, optimized load times.

- Boosted WordPress website performance and SEO with JavaScript and TypeScript optimizations to improve page speed and mobile-first user experience.
- Leveraged Bootstrap, Tailwind CSS, and Foundation to create dynamic, responsive applications, while ensuring cross-device compatibility and faster load times.
- Streamlined client workflows by integrating APIs and leveraging JavaScript and TypeScript with tools like Zapier, Webhooks, and AWS Lambda for seamless automation.
- Conducted performance audits on Shopify stores, optimized with JavaScript, TypeScript, and Liquid, improving user experience and increasing conversion rates.
- Refactored legacy codebases to align with modern JavaScript and TypeScript standards, while improving maintainability and system performance.
- Created custom Drupal modules and themes to integrate third-party services, APIs, and custom features and enhanced platform functionality and user engagement.
- Migrated content from other CMS platforms to Drupal to improve content management and workflow efficiency by 20%.
- Implemented content workflows and user permissions in Drupal, while enabling multi-user collaboration and boosting team efficiency by 30%.
- Built custom WordPress themes and plugins with JavaScript, TypeScript, PHP, HTML, CSS, and MySQL, and proved tailored functionality for clients.
- Integrated third-party APIs, payment gateways, and CRM systems into WordPress for seamless e-commerce transactions and real-time data syncing.
- Designed custom Shopify themes using JavaScript, TypeScript, Liquid, HTML, CSS, and jQuery, while delivering a responsive and cohesive e-commerce experience.
- Wrote unit and integration tests for Java applications using JUnit, Mockito, and Jest, to ensure reliable code and smooth deployments.
- Conducted thorough Shopify performance audits, optimizing front-end interactions with JavaScript, TypeScript, and Liquid for faster load times and improved user retention.
- Managed version control using SVN, Git, and GitHub, maintaining collaboration and code integrity within the development team.
- Created and maintained Progressive Web Apps (PWAs) with React, enabling reliable, offline-first experiences with fast load times and push notifications.
- Implemented Redux for state management in React applications, while ensuring smooth data flow and easy debugging.
- Used GraphQL to optimize data fetching in both React and Vue.js applications, reducing API request overhead and increasing data retrieval speed.
- Enhanced development workflows using Webpack, Gulp, Grunt, NPM, and Yarn and optimized asset bundling and dependency management for efficient builds.
- Deployed containerized applications using Docker for consistent development environments, while improving collaboration and simplifying deployment pipelines.
- Conducted automated testing using Cypress, Jest, and Mocha, integrating them into CI/CD pipelines to ensure stable and efficient deployment processes.

## EDUCATION

### **Boise State University, Boise, ID**

Bachelor's Degree in Computer Science

Feb 2011 – Sep 2015

- Gained a solid foundation in computer science principles, while including programming, algorithms, data structures, and software development methodologies.
- Completed coursework in advanced topics such as web development, database systems, and software engineering.
- Engaged in practical projects and collaborative work, while enhancing problem-solving skills and technical expertise.

## LANGUAGES

- English: Native
- French: Conversational
- Japanese: Conversational