RICARDO ZAVALA

Senior Full Stack Engineer

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SUMMARY

Frontend-Focused Full Stack Engineer with 9+ years delivering enterprise solutions in React, Java and Go. Expertise in microservices, serverless architectures, and cloud systems (AWS/Azure). Led 15+ critical launches, driving 40%+ efficiency gains through infrastructure automation. Combines technical vision with operational excellence, consistently shipping products under tight deadlines while maintaining 99.9%+ uptime.

SKILLS

JavaScript   TypeScript   React   Redux   Zustand   TanStack Query   Java   Spring Boot   Go

PostgreSQL   Microservices Architecture   RabbitMQ   Apache Kafka   GraphQL   GitHub Actions

Jenkins   Unit Testing   Jest   Cypress

EXPERIENCE

Senior Full Stack Engineer - Full-time

Accenture Federal Services

📅 04/2022 - Present   📍 Remote

- Led the React frontend for USPS Click-N-Ship by introducing multi-page form validation, Zustand state management for user preferences and administrative functions and working with the USPS design team to standardize USPS component library to be used by 22 different teams within USPS.
- Maintained backend microservices (Spring Boot) to handle millions of transactions Bulk testing and E2E testing performed with Jest and Playwright, stress testing with JUnit optimized for 775K~1.25M concurrent users.
- Architected and implemented real-time GIS/mapping services for mail tracking, improving logistical routing and customer satisfaction, also used by 8 different USPS teams.
- Designed and implemented a secure payment gateway for USPS Click-N-Ship, integrating with major payment processors (PayPal, Stripe, Square, Fiserv) using PCI-compliant best practices reducing payment holding time from 7 to 4 days.
- Developed an AWS Lambda function to automate sales and shipping transaction reports on a weekly basis to those in USPS leadership in distribution lists.

Full Stack Engineer - Contract

Cigna

📅 02/2022 - 04/2022   📍 Remote

- React 17 micro frontends with `single-spa` router to allow current generation and legacy micro frontends to interact in a single project.
- Integrated New Relic monitoring for both React frontend and Spring Boot backend, setting up custom dashboards that improved issue resolution time by 33%.
- Setup GitHub Actions with parallelized Cypress test jobs for splitting a test across multiple jobs and saving test screenshots and videos for debugging.
- Improved healthcare provider search functionality using React Query and Elasticsearch, decreasing average query time and increasing successful patient-provider matches by 14%.
- Optimized AWS ECS Fargate with Application Load Balancer to replace dependency for on-premise servers to automatically scale clusters.

Frontend Engineer - Contract

Touch To

📅 11/2021 - 02/2022   📍 Austin, TX

- Pioneered micro-frontend architecture using single-spa and Webpack Module Federation that enabled 4 development teams to work independently while reducing sprint integration conflicts by 83%.
- Developed encrypted WebSocket communication layer with React and Socket.io for defense projects that maintained 99.997% uptime while processing 240 TB of sensitive data.
- Created a TypeScript-based design system with strict type checking that reduced UI-related bugs by 47% and accelerated component development by 3.2x.
- Implemented comprehensive testing strategy (Jest, Testing Library, Cypress) that increased test coverage from 62% to 91% while reducing QA cycles by 6 business days.
- Assisted with AWS cloud configuration for secure application hosting, implementing best practices for scalable infrastructure.

EXPERIENCE

Web and Native Mobile Developer - Full-time

Zappos Family of Companies

📅 10/2018 - 08/2021 📍 Las Vegas, NV

- Spearheaded PWA implementation with React 16 that enabled offline functionality, increasing mobile conversion rates and reducing bounce rates by 17%.
- Architected a high-volume payment processing system with Spring Boot and RabbitMQ that scaled to handle 18.5M monthly transactions with 99.99% uptime during Black Friday events.
- Reduced page load time by 2.7 seconds through implementing React lazy loading, Webpack code splitting, and service worker caching strategies, improving SEO rankings for 1,200+ product categories.
- Designed a GraphQL federation layer with Apollo Server that consolidated 12 legacy REST APIs, reducing frontend data over-fetching by 76% and server load by 32%.

Web Development Intern - Intern

Vegas.com

📅 11/2016 - 12/2017 📍 Las Vegas, NV

- Contributed to Java-based booking platform migration that processed 12,000+ daily transactions, implementing responsive UI components that improved mobile conversions by 28%.
- Developed SEO-optimized landing pages using Spring MVC and Thymeleaf templates that increased organic traffic by 34% across 75 entertainment event categories.
- Created build process automation with Jenkins that reduced deployment errors by 62% and cut release preparation time from 3 days to 4 hours.

PROJECTS

Next-Gen CRE Matching Platform

📅 04/2024 - Present 📍 Remote

Built a platform using React (frontend), Go & Python (backend), AWS (cloud services), and PostgreSQL (DB) to automatically match off-market commercial real estate buyers and sellers, unlocking previously undiscovered market opportunities.

- Spearheaded 10-service monolith project into microservices architecture using Kubernetes and Go, reducing deployment failures by 70% and cutting $10K/month in cloud costs through spot instance automation.
- Built frontend deployments via AWS Amplify, with considerations for Terraform to provision AWS resources.
- Introduced ESLint and TypeScript rules, enforcing coding support in existing codebases with minimal disruption.
- Converted traditional JavaScript + React 17 project into TypeScript + React 19 SSR improving page-loading speed, achieving 95% Lighthouse score.
- Mentored a cross-functional engineering team, installed agile rituals, and championed best coding practices—accelerating feature delivery and ensuring rock-solid system performance.

EDUCATION

Bachelor of Science, Computer Science

Unviersity of Nevada-Las Vegas

📅 06/2018 📍 Las Vegas, NV

Bachelor of Arts, Psychology

Nevada State University

📅 06/2013 📍 Henderson, NV