Veereshkumar Ravichandran

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Summary

Senior Backend / Full-Stack Engineer with 7 years of experience building high-scale distributed systems, microservices, and cloud-native applications using Ruby on Rails, Go, PostgreSQL, Redis, Kafka, and AWS. Strong focus on system performance, database optimization, event-driven architecture, and secure API design. Led teams, modernized large legacy systems, improved scalability for IoT workloads (10M+ devices), and delivered revenue-impacting features across SaaS platforms.

Skills

Languages, Frameworks & Library: Ruby on Rails, Ruby, GoLang, JavaScript, TypeScript, React JS, Node JS, React Native, GraphQL

Databases: PostgreSQL, DynamoDB

Cloud & DevOps: AWS, Docker, Convox, Kubernetes, Jenkins, CircleCI, GitHub Actions

Architecture: Microservices, Microfrontend, Event-Driven, RESTful APIs, Monolithic, LLM

Testing: RSpec, Jest, React Testing Library, Selenium

Other: Kafka, Redis, Sidekiq, CI/CD, OAuth 2.0, JWT, TDD, SOLID Principles, Agile/Scrum, Serviceworker

Work Experience

InfoVision Labs, Chennai
Technical Lead   Sept 2025 - Nov 2025

- Managed Verizon Wireless Inside Sales Dashboard using microservices architecture, improving modularity and reducing deployment time.

Rently Software Development, Coimbatore
Technical Lead   Apr 2022 - Jul 2025

- Led an 8-member team delivering microservices in Ruby on Rails, Go, and React, enhancing platform reliability and contributing to 14% revenue growth.
- Architected a new onboarding microservice (Rails + React), reducing onboarding time by 45% and improving customer activation.
- Delivered a secure SSO microservice utilizing OAuth2 + PKCE, streamlining authentication processes across 8+ internal applications; upheld 100% compliance with SOC2 security and privacy mandates.
- Spearheaded the development of Taurus, an AI-powered chatbot deployed across all support channels, resulting in a 40% decrease in support call volume and a substantial transformation of the team's workflow.
- Integrated with CyberSource Payment Service, with Rently Billing Module and Salesforce with considering all security accepts in both Frontend and Backend.
- Optimized the API and SQL queries by implementing Flattened table structure(over Ruby on Rails and Kafka) and Indexing, resulting in a 80% improvement in the database performance and usage efficiency.
- Maintained serverless Go microservices on AWS Lambda powering 10M+ IoT devices with 99.99% uptime.
- Orchestrated the integration of third-party services into the Rently platform, utilizing Rails and Go; decreased integration time by 35% and accelerated feature releases.
- Implemented Kafka for change data capture, enabling the seamless transfer of over 50M records from the main database to the reporting database, which improved data accessibility and operational efficiency by 99.9%.
- Executed a seamless transition from Amazon RDS to Amazon Aurora, enhancing database performance by 3x; established a disaster recovery plan that ensured 99.9% uptime through multi-zone availability across all regions.
- Designed a robust logging system for monitoring performance metrics, which tracked application usage patterns across 10+ microservices; enhanced troubleshooting capabilities while reducing incident response time by over 35%.
- Composed a comprehensive analysis of AWS resource utilization, pinpointing and decommissioning underused instances, resulting in a substantial annual cost reduction exceeding $15,000 in cloud service expenditures.
- Directed a seamless upgrade from Rails 5.2 to 7.1 and Ruby 2.5 to 3.3, personally mentoring four junior developers through the process of refactoring legacy code and improving maintainability.
- Revamped data access patterns to discriminate between read and write operations, delivering a 2x improvement in query speed and markedly improving the UX for 20K+ daily users.
- Initiated a collaborative project aimed at streamlining workflows within the team, resulting in a 20% increase in overall productivity and enabling a smoother transition for new employees during onboarding processes.

Senior Software Engineer Apr 2021 - Mar 2022

- Led a seamless transition to a new application built with Ruby on Rails, React, and GoLang, optimizing user experience and achieving an 88 NPS score.
- Led a 6-member team in developing a Ruby on Rails and React.js project with AWS services, enhancing user experience and increasing revenue by 5.87%.
- Improved background job processing in Rails and Golang by migrating to Sidekiq, increasing job throughput to 1000 jobs/second.
- Collaborated with the Asynchronous team to develop scalable microservices using Ruby on Rails, initiated event-driven architecture with Kafka and SQS for real-time data processing, and utilized AWS Aurora RDS and DynamoDB for high-availability in an IoT SaaS platform, driving a 5% revenue increase.
- Optimized Google Maps API usage by analyzing traffic data and reducing unnecessary calls; achieved a cost savings of $70K annually through strategic adjustments and efficient resource allocation.
- Conducted in-depth analysis of existing ETL workflows and identified bottlenecks; applied Kafka solutions that streamlined processes, allowing for 24/7 data processing capabilities without additional resource requirements.
- Upgraded Node from v8.10 to v18.14. and React JS from v16.8 to v17.0.2 ensuring a seamless transition and improving code maintainability and reducing technical debt by 40%.
- Pioneered the optimization of database performance for a high-traffic application by implementing indexing, query optimization, and partitioning strategies in PostgreSQL, resulting in a 60% improvement in response times, while also executing a project that reduced JavaScript chunk sizes by 30%, decreasing page load times.
- Transition from JavaScript to TypeScript, enhancing code reliability and scalability while upholding 100% test coverage across all Rently's frontend applications.
- Conducted feasibility studies to determine whether a proposed technology solution is feasible. Evaluate the impact on existing systems, resources, and budget, and recommend adjustment.
- Guided junior developers via thorough code reviews, emphasizing security, performance, and coding standards that elevated team quality and expertise, contributing to a 15% increase in proficiency.

Software Engineer Dec 2018 - Mar 2021

- Crafted 10+ microservices and 200+ APIs, which streamlined system processes and supported a 60% increase in user traffic.
- Devised advanced scheduling algorithms and workflows by Ruby on Rails for Property managers to schedule and screen potential prospects.
- Architected a ReactJS front-end for seamless user experience, adeptly managing 1M+ monthly users with zero performance disruptions and achieving a 99.9% uptime across all application modules.
- Orchestrated two-way synchronization with Google Calendar API that transformed calendar management practices, allowing users to manage over 200 appointments daily.
- Launched a ReactJS-based platform for intuitive availability configuration, mirroring Google Calendar's interface, and realized a 70% adoption rate among target users within the initial month.
- Collaborated with UI/UX designers to turn Figma into interactive functional applications and providing wireframes to refine user experience.
- Delivered high-quality React Native, Rails, and Node.js integrations, including Bluetooth and IoT-related features.
- Analyzed and addressed 10+ critical technical debts that were causing performance bottlenecks; reduced load times by 50%, directly enhancing user engagement and retention rates across the platform.

Education

Sri Shakthi Institute of Engineering & Technology, Coimbatore   Aug 2015 - May 2019
B.E. in Electronics & Communication Engineering

Awards

Business Champ award @ Rently H1 2022, H2 2023

- Recognized for reliability, performance, and exceptional leadership during complex and time-sensitive projects.

Portfolio

A portfolio site written using the framework React JS, TailwindCSS, and hosted on Vercel(https://veeresh-portfolio-beta.vercel.app).