

# 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, Redux, GraphQL, jQuery

**Databases:** PostgreSQL, DynamoDB, Aurora, NoSQL

**Cloud & DevOps:** AWS (S3, RDS, Aurora, SQS, Lambda, CloudFront, CloudWatch, API Gateway, Lambda), Docker, Convex, Kubernetes, Jenkins, CircleCI, GitHub Actions

**Architecture:** Microservices, Microfrontend, Event-Driven, RESTful APIs, MVC, 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

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

### Rently Software Development, Coimbatore

#### Technical Lead

Apr 2022 - July 2025

- Led an 8-member team delivering microservices in Ruby on Rails, Go, React, using Kafka, SQS, and AWS Aurora/DynamoDB, improving platform reliability and contributing to 14% revenue growth.
- Architected a new onboarding microservice (Rails + React), reducing onboarding time by 45% and improving customer activation.
- Designed and built a secure SSO microservice using OAuth2 + PKCE, enabling seamless authentication across multiple internal apps.
- Built Taurus AI chatbot for customer support, reducing support call volume significantly.
- 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.
- Built and integrated multiple third-party application services into the Rently platform (Rails/Go), delivering on aggressive deadlines and improving system interoperability for stakeholders.
- Negotiated and managed 20+ client contracts and led cross-team alignment initiatives, improving productivity by 20%.
- Implemented Kafka for change data capture, enabling the seamless transfer of over 5M 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.
- Spearheaded 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.
- Played a pivotal role in upgrading Rails from version 5.2 to 7.1 and Ruby version from 2.5 to 3.3 ensuring a seamless transition and improved code maintainability.
- Designed a strategy to differentiate read and write operations, achieving 2x faster query responses and a noticeable enhancement in the user experience for over 20K daily active 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

- Enforced a seamless transition for around 100K users to the new Application which was created by Ruby on Rails, React GoLang and optimizing user experience and performance without sacrificing quality; monitored user satisfaction through Zendesk, resulting in an 88 NPS score.
- Led a 6-members team in the development of a Ruby on Rails, and React.js project with AWS services for Aurora RDS, S3 Cloud storage, DynamoDB, and SQS queuing system, significantly enhancing user experience and focusing on web accessibility in the SaaS project which increased the revenue by 5.87%.
- Improved background job processing in Rails and Golang Applications by migrating from Delayed Job to Sidekiq, utilizing a separate database to reduce load on the primary DB and increasing job throughput to 1000 jobs per second.
- Collaborated with the Asynchronous team to develop scalable microservices using Ruby on Rails, implemented 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
- 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.
- Played a pivotal role in upgrading 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, implementing Redis for caching and as a backend for Sidekiq background processing, resulting in a 60% improvement in response times through refined data models.
- Executed a performance optimization project that reduced JavaScript chunk sizes by 30%, resulting in a significant decrease in page load times and improving the site's overall performance metrics.
- Spearheaded the 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.
- Created a training program focused on innovative production techniques, empowering team members and resulting in a 15% increase in skill proficiency across the production department.
- Provided mentorship to junior developers through comprehensive code reviews, reinforcing best practices in security, performance, and coding standards to elevate team quality and expertise

## Software Engineer

Dec 2018 - Mar 2021

- Contributed to building 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.
- Developed a ReactJS-powered frontend application with a focus on visual appeal and seamless user experience, efficiently handling 1M+ monthly users without performance issues.
- Orchestrated two-way synchronization with Google Calendar API that transformed calendar management practices, allowing users to manage over 200 appointments daily.
- Independently designed and developed a ReactJS-based frontend web page, enabling end-users to set availability similar to Google Calendar.
- Collaborated with UI/UX designers to turn Figma mockups 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.