Veereshkumar Ravichandran

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Summary

Passionate and results-driven Fullstack Engineer with 6+ years of experience building scalable, high-performance applications and optimizing system architecture. Skilled at crafting smooth, user-friendly experiences and solving complex technical challenges and performance optimization techniques. Experienced in leading development teams, and working with distributed systems, microfrontend architecture and cloud infrastructure management to build enterprise-grade solutions. Strong focus on writing clean, maintainable code, improving application performance, and enhancing scalability. Always looking for ways to make applications feel effortless for users while pushing the boundaries of modern development.

Skills

Technologies & Tools: Ruby on Rails, Ruby, React JS, JavaScript, Node JS, React Native, Typescript, jQuery, Redux, Jest, React Testing library, PostgresSQL, NoSQL, GraphQL, HTML, CSS, Kafka, GIT, Rspec, SideKiq, Redis, AWS(DynamoDB, SQS, Cloudwatch, Aurora, API Gateway, Cloudfront, Lambda, RDS, S3), Docker, Kubernetes, CircleCI, Jenkins, Bootstrap, Tailwind, Postman, Selenium

Concepts: Microfrontend architecture, Module Federation, Micro services, MVC architecture, Event driven architecture, Monolithic architecture, RESTful API, OOPS, TDD, Agile Methodology, Scrum, Kanban, Performance optimization and scalability techniques, Serviceworker, OAuth 2, CI/CD, SOLID principles, JWT, oAuth

Work Experience

Rently Software Development, Coimbatore

Technical Lead — Apr 2023 - July 2025

- Transformed product interest insights into actionable solutions by designing a microfrontend architecture; this initiative decreased onboarding time by 25%, facilitating smoother integration and enhancing overall user satisfaction.
- Optimized the SQL queries by implementing Flattened table structure(over Kafka) and Indexing, resulting in a 60% improvement in the database performance and usage efficiency.
- 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.
- 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.
- Played a pivotal role in upgrading Rails from version 5.2 to 7.2 and Ruby version from 2.5 to 3.3 ensuring a seamless transition and improved code maintainability.
- Provided mentorship to junior developers through comprehensive code reviews, reinforcing best practices in security, performance, and coding standards to elevate team quality and expertise

Associate Technical Lead — Apr 2022 - Mar 2023

- Designed and developed a full-stack SSO microservice with PKCE and OAuth 2.0, integrating both frontend and backend to provide a seamless, unified login experience across multiple applications in the Rently system.
- 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.
- 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%.
- Played a pivotal role in upgrading Node from v8.10 to v18.14. and React JS from v16.8 to v18.0.2 ensuring a seamless transition and improving code maintainability and reducing technical debt by 40%.
- Engineered and implemented a highly scalable Microservices architecture using Docker and Kubernetes, optimizing CI/CD pipelines with Jenkins, GitHub Actions, and Atlassian tools, enhancing application development efficiency by 40%
- Spearheaded the transition from JavaScript to TypeScript, enhancing code reliability and scalability while upholding 100% test coverage across all Rently's frontend applications.
- Designed a strategy to differentiate read and write operations, achieving 2x faster query responses and a noticeable enhancement in the user experience for over 20,000 daily active users.
- Led the definition of technical specifications by collaborating with an 8-member team, which resulted in 20 successful product launches, enhancing user adoption and engagement across the company's product portfolio.
- 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.

Senior Software Engineer Apr 2021 - Mar 2022

- Enforced a seamless transition for around 50,000 users to the new frontend portal, optimizing user experience without sacrificing quality; monitored user satisfaction through Zendesk, resulting in an 88 NPS score.
- Led a 8-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 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.
- 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.
- Orchestrated rigorous code review process for cross-functional team of 5 engineers, resulting in 85% reduction in bugs discovered post-release and 20% faster time-to-market for new features.
- 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.
- Conducted feasibility studies to determine whether a proposed technology solution is feasible. Evaluate the impact on existing systems, resources, and budget, and recommend adjustment.

Software Engineer Dec 2018 - Mar 2021

- Developed a ReactJS-powered frontend application with a focus on visual appeal and seamless user experience, efficiently handling 1M+ monthly users without performance issues.
- Designed a comprehensive suite of backend APIs that facilitated seamless integration with third-party services; the APIs are now utilized by 10+ applications, resulting in increased user engagement and retention.
- Devised advanced scheduling algorithms and workflows by Ruby on Rails for Property managers to schedule and screen potential prospects.
- Independently designed and developed a ReactJS-based frontend web page, enabling end-users to set availability similar to Google Calendar.
- Orchestrated two-way synchronization with Google Calendar API that transformed calendar management practices, allowing users to manage over 200 appointments weekly.
- Contributed to building 5+ microservices and APIs, which streamlined system processes and supported a 50% increase in user traffic.
- Collaborated with UI/UX designers to turn Figma mockups into interactive functional applications and providing wireframes to refine user experience.
- Developed front-end user interface using React Native and JavaScript for Android and iOS mobile applications.
- Maintained the new features in the mobile applications using React native.
- Analyzed and addressed 5 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

- This is intended for the individual in the team and management who is considered the most reliable and trust, especially during challenging situations.