

Rohini Gudimetla

Full Stack Software Developer

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Summary

Full-stack software engineer building production systems on Spring Boot, React/TypeScript, PostgreSQL, and AWS. Designed and shipped a live application with Redis-backed distributed caching and in-memory pub/sub event delivery, documented across 16 architectural decision records.

Technical Skills

Languages: Java, TypeScript, JavaScript, SQL

Frameworks: Spring Boot, React, Spring Security, Hibernate

Databases: PostgreSQL, Redis

Infrastructure: AWS (EC2, S3, RDS, CloudFront, CloudWatch), Docker, Kubernetes

CI/CD: GitHub Actions

Testing: JUnit 5, Mockito, Vitest, React Testing Library

Tools: Maven, Liquibase, Tailwind CSS, Git

Work Experience

Software Development Consultant, Cher Digital Analytics (cher-digi-analytics.vercel.app | github.com/rohinigudimetla/cher-digi-analytics)

Oct 2025 – Nov 2025

Next.js, Supabase, Vercel, JavaScript

- Built a client booking system in Next.js integrating Google Calendar OAuth2 for automated event creation on booking confirmation and Resend for transactional email delivery to clients and consultants.
- Architected a Supabase backend across four RLS-protected tables, enforcing all data access exclusively through Next.js server-side API routes using a service-role admin client to prevent client-side credential exposure.
- Diagnosed and resolved three Vercel production build failures across Google OAuth2 initialization, Resend dynamic imports, and Supabase environment fallbacks, delivering a Next.js 15 application to production.

Front End Developer Intern, World Salon (world-salon.com)

Jul 2024 – Jan 2025

React, Bootstrap, JavaScript

- Built three React frontend pages from Figma design specifications using JavaScript and Bootstrap CSS, delivering responsive UI components to production.
- Integrated existing RESTful API endpoints into React components using JavaScript fetch, handling response data and conditional rendering across all three pages.

Projects

PocketLibrary (pocklib.site | github.com/rohinigudimetla/Pocket-Library)

- Designed a deliberately over-engineered production system on Spring Boot, PostgreSQL, Redis, Kubernetes, and AWS, producing 16 architectural decision records that document trade-off rationale at every layer.
- Deployed Spring Boot to a minikube Kubernetes cluster on EC2 with liveness and readiness probes via Spring Actuator, replacing a manual 12-step SSH deploy sequence with a 4-minute automated GitHub Actions pipeline that performs zero-downtime rolling updates.
- Engineered 14 REST endpoints across a repository-pattern Spring Boot architecture, managing PostgreSQL schema evolution through 7 Liquibase migrations and all data access through JPA and Hibernate.
- Secured the API guided by an OWASP Top 10 audit, implementing Spring Security role-based access, JWT authentication with Redis-backed token revocation on logout, and Bucket4j rate limiting to block brute-force login attempts.
- Implemented a Redis Pub/Sub notification system that pushes real-time book request alerts to authenticated readers via Server-Sent Events, eliminating the need for a polling architecture and reducing unnecessary database reads on the notification endpoint.
- Built 25 tests across JUnit 5, Mockito, Vitest, and React Testing Library, prioritizing security-layer coverage to achieve 76% on JWT authentication and access control, with the suite running in GitHub Actions on every push.
- Automated React/TypeScript frontend deployment to AWS S3 and CloudFront via a path-filtered GitHub Actions pipeline that triggers exclusively on client directory changes and completes in 27 seconds.

Education

Boston University, Master of Science, Software Development

May 2025

Amrita School of Engineering, Bangalore, India

May 2023

Bachelor of Technology, Electronics and Computer Engineering