NALLURI SAI SWETHA

Full-Stack Software Engineer - Java, Spring Boot, React, Angular, PostgreSQL

+91 9963530619 snalluri123@gmail.com linkedin.com/in/swetha-nalluri-07826321b github.com/Swethaaaaa Portfolio

SUMMARY

Full-Stack Software Engineer with 2+ years of production experience across the API-to-UI stack in FinTech systems. Strong in Java 17, Spring Boot, Microservices, PostgreSQL, Redis, and Kafka, with hands-on experience designing RESTful APIs and event-driven backend services for 100,000+ daily transactions. Experienced with Angular API integration in production and React, TypeScript, and Tailwind CSS through personal projects, working across the full request lifecycle from backend services to UI integration. Uses Cursor, Claude, and GitHub Copilot daily to accelerate development, debugging, and documentation.

TECHNICAL SKILLS

Languages: Java 17, SQL, JavaScript, TypeScript
Backend: Spring Boot, Spring MVC, Spring Data JPA, Hibernate, RESTful API Design, Microservices Architecture, Event-Driven Architecture
Frontend: React (Hooks, Component State), Angular (Component/Service Architecture, HTTP Integration), HTML, CSS, Tailwind CSS, REST API Integration
Databases: PostgreSQL, MySQL, MongoDB, SQL
Messaging & Caching: Apache Kafka, Redis, Asynchronous Processing
Cloud & DevOps: Amazon Web Services (AWS) - EC2, S3, RDS, IAM, CloudWatch, Docker, Gradle, Linux, CI/CD
Testing & Tools: JUnit 5, Mockito, Unit & Integration Testing, Git, Postman, DBeaver
Concepts: Query Optimization, Performance Tuning, Caching Strategies, Frontend-Backend Integration, System Design, Agile
AI-Assisted Development: Cursor, Claude, GitHub Copilot

PROFESSIONAL EXPERIENCE

Software Development Engineer - Trustt (Novopay) - Bangalore, India *Jul 2024 - Present*

- Designed and maintained **Java 17 Spring Boot** backend modules for a Loan Collection System processing **100,000+ daily financial transactions** across collection, repayment, rectification, and account-update workflows.
- Optimized critical **PostgreSQL** queries by nearly **60%** through execution-plan analysis, query restructuring, and targeted indexing, reducing latency for high-traffic financial workflows.
- Owned **REST API** contracts end-to-end for collection and rectification features consumed directly by the **Angular** frontend, designing request/response schemas, aligning payloads with UI screens, and debugging issues across the full API-to-UI path.
- Engineered a Customer Interaction Service aggregating data from multiple internal sources for **5,000+ customer accounts**, sustaining **sub-200ms** API response times.
- Implemented audit-history tracking across **20+ entities**, preserving before/after field values to support financial traceability and compliance.
- Streamlined backend workflows using **Kafka**-based asynchronous processing, decoupling services and enabling downstream systems to process updates independently for improved fault isolation.
- Diagnosed and resolved recurring production issues, including failed updates, duplicate processing, and inconsistent responses, through log analysis, SQL debugging, and root-cause investigation.
- Developed unit and integration tests using **JUnit 5** and **Mockito** for service and repository layers, validating business rules and preventing regressions across releases.

PROJECTS

AI Resume Analyzer - Java 17, Spring Boot, Redis, Docker

- Designed a Java 17 Spring Boot backend with layered architecture, request validation, and centralized exception handling, integrating an external LLM API for automated resume analysis.
- Designed a cache-key strategy (resume + job-description hash) with a 24-hour Redis TTL, cutting redundant LLM calls and serving repeat responses in milliseconds.
- Added per-IP rate limiting (60 requests/min) via Bucket4j and containerized the service with Docker for consistent deployment.

Graph-Based Relationship Explorer - Java 17, Spring Boot, Neo4j, React, TypeScript, WebSockets

- Spring Boot service over Neo4j modeling connected data with native graph traversals via Cypher, paired with a React and TypeScript frontend rendering the graph interactively with live updates over WebSockets.

Real-Time Log Search Dashboard - Java 17, Spring Boot, PostgreSQL, React, WebSockets

- Log-ingestion and search service in Spring Boot with fast filtering by service, severity, and time range, streaming live events to a React dashboard over WebSockets for real-time tailing.

EDUCATION

Bachelor of Technology - Computer Science and Engineering *2020 - 2024* Vellore Institute of Technology, AP - CGPA: 8.06

CERTIFICATIONS

- Neo4j Certified Professional - Graph Data Science