LANCHANA N

Senior Software Engineer | Java · Spring Boot · Microservices · SQL

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PROFESSIONAL SUMMARY

Senior Software Engineer with 4.1 years designing, building, and scaling backend systems for enterprise and fintech products. Specialized in Java, Spring Boot, SQL and microservices, with a track record of improving API response times by 70% (1s to 300ms) and cutting dashboard latency by ~87% (3s to 400ms) through targeted performance optimization. Comfortable owning features end-to-end and collaborating cross-functionally in Agile teams. Seeking to contribute backend expertise in API design and system architecture to a product-focused team.

CORE SKILLS

Languages: Java 8, Java 21, SQL

Backend & Frameworks: Core Java, J2EE, Spring Boot, Microservices, Concurrency, Spring Security, Spring Data JPA, Spring AI, Spring Cloud, Hibernate, Multithreading, WebSockets, REST APIs, JWT authentication, JUnit, Mockito

Databases: Microsoft SQL Server, T-SQL, Oracle, PL/SQL

Cloud, DevOps & Tools: AWS (EC2), Docker, NGINX, CI/CD pipelines, Linux, Git, GitHub, Bitbucket, Maven, STS, Postman, IntelliJ IDEA

Engineering Practices: Design Patterns, SOLID Principles, Code Review, Performance Optimization, Agile/Scrum, Root-Cause Analysis, Mentorship

PROFESSIONAL EXPERIENCE

Senior Software Engineer — *BSOL Systems Private Limited* Jun 2022 – Jul 2026 | Bengaluru

- **Backend & Microservices Development:** Designed, developed, and maintained scalable RESTful APIs and microservices using Java and Spring Boot, supporting production-grade applications and business-critical workflows.
- **Database Development:** Developed and maintained Stored Procedures, Functions, and Triggers using PL/SQL (Oracle) and T-SQL (SQL Server) for implementing business logic, data processing, and database operations.
- **Performance Optimization:** Optimized SQL queries and database operations, cutting API response time from 1 second to 300ms (a 70% improvement).
- **Security:** Implemented role-based access control (RBAC) and authorization to secure application APIs.
- **Cloud & DevOps:** Dockerized backend services and deployed to AWS EC2, ensuring reliable, repeatable application delivery; collaborated with frontend and DevOps teams under Agile methodology.
- **Concurrency:** Applied Java multithreading and concurrency techniques to improve application latency and processing efficiency.
- **Mentorship & Leadership:** Led 15+ technical knowledge-sharing sessions and mentored junior developers on Java, Spring Boot and backend best practices.

Technologies: *Java, Spring Boot, Angular, Linux, Microservices, Docker, SQL, SQL Server, Oracle*

Project: PeakPlanner - Financial Planning Platform *(Client: PeakAlpha)* Feb 2023 – Jul 2026 | Bengaluru

Owned features end-to-end for a financial planning platform from requirements gathering through production deployment.

- **Microservices:** Designed and built microservices using Java, Spring Boot, REST APIs, and SQL for core financial planning workflows.
- **Product Features:** Delivered key customer-facing features including the Journey Module, Running SIPs, XIRR and Portfolio X-Rays.
- **Performance:** Reduced dashboard load latency from 3s to 400ms (~87% improvement) by resolving backend bottlenecks and implementing Server-Sent Events (SSE).
- **Real-Time Integration:** Integrated XIRR calculations using Python and WebSockets, enabling real-time communication across Java backend, Python calculation service, and frontend.
- **Database Optimization:** Optimized Stored Procedures, Views, and indexes to improve query performance and API latency.
- **Multithreading & Concurrency:** Leveraged Java Virtual Threads and concurrency mechanisms to execute independent operations in parallel, improving throughput and reducing response latency for performance-sensitive workflows.
- **AI Feature:** Built an LLM-based natural-language-to-SQL chatbot in Spring AI, letting users query financial data using plain English.

Technologies: *Java 21, Spring Boot 3.5, SQL Server, REST APIs, Angular, Linux, Docker, AWS EC2, Microservices, NGINX*

Project: Charterer Operations *(Client: INSW)* Jun 2022 – Jan 2023 | Bengaluru

- **Feature Development:** Designed and implemented REST APIs endpoints based on functional and business requirements, delivering 5+ new client-requested features.
- **Security:** Migrated REST API authentication from session-based IDs to stateless JWT-based authentication, improving API security and enabling stateless access control.
- **Performance Optimization:** Optimized batch processing APIs using Java Parallel Streams and database query optimization, eliminating N+1 query issues and reducing API response time by 60%.
- **Production Support:** Resolved and deployed 10+ Change Requests (CRs) to production through systematic debugging, root-cause analysis, and code-level fixes.
- **Database Development:** Developed Oracle PL/SQL queries and stored procedures, troubleshooting functional and data-related issues through application data analysis.

Technologies: *Java 8, REST APIs, JWT, Spring Boot 1.5, Oracle, PL/SQL*

EDUCATION

Bachelor of Engineering (B.E.) in Electronics and Communication

Coorg Institute of Technology, Kodagu, Karnataka | Aug 2017 – Sep 2020