

Das Sanjeevan

Senior Software Engineer | Technical Lead | Backend Java, Spring Boot & Microservices | Generative AI
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PROFESSIONAL SUMMARY

Senior Software Engineer and Technical Lead with 6.5+ years of experience delivering enterprise-scale, high-availability backend systems at Tata Consultancy Services (TCS), serving millions of users across large-scale enterprise platforms. Skilled in designing scalable Java and Spring Boot microservices, distributed systems, RESTful APIs, and cloud-native platforms that support mission-critical operations. Proven record of leading engineering teams, engaging directly with enterprise clients, and driving delivery from architecture through production. Currently building Generative AI and Agentic AI solutions with LangChain, LangGraph, RAG, MCP, and LLMs to automate business workflows and improve engineering productivity.

PROFESSIONAL EXPERIENCE

Senior Software Engineer / Technical Team Lead Jan 2024 – Present

Tata Consultancy Services (TCS) — Client: CelcomDigi Berhad (Telecom)

Kuala Lumpur, Malaysia

Sales Partner Portal (Current)

- Lead the design, development, and enhancement of enterprise-scale backend applications powering CelcomDigi's Sales Partner Portal, enabling dealer onboarding, partner lifecycle management, and telecom business operations.
- Design and build scalable Spring Boot microservices and RESTful APIs using Java, Spring Cloud, Hibernate, JPA, Redis, MySQL, and MariaDB within a distributed ecosystem of 100+ microservices.
- Built an end-to-end automated test suite using Playwright that runs headlessly via a single command — self-executing test scenarios by raising live orders, capturing screenshots of each sensitive screen, and auto-generating and sharing an error report on failure, significantly reducing manual QA effort and improving release confidence.
- Collaborate directly with business stakeholders, solution architects, and client leadership to analyze requirements, define solutions, estimate effort, and deliver business-critical features.
- Drive the full software delivery lifecycle — architecture, solution design, development, code reviews, testing, CI/CD deployment, production releases, and operational support.
- Build and maintain CI/CD pipelines using GitLab, GitHub, Jenkins, and Maven to enable reliable enterprise deployments; optimize backend services, database interactions, and API performance for scalability and stability.
- Perform production incident analysis, root-cause investigation, and critical issue resolution while maintaining high availability for enterprise telecom platforms.
- Played a key role in the Celcom–Digi enterprise platform consolidation, supporting backend optimization and seamless migration of ~3 million subscribers following the telecom merger.

Software Engineer — Dealer Management System Jun 2021 – Dec 2023

Tata Consultancy Services (TCS) — Client: CelcomDigi Berhad (Telecom)

India / Malaysia

- Built the Dealer Management System from scratch as a complete product for CelcomDigi's enterprise sales ecosystem, delivering scalable modules for dealer onboarding, outlet and partner management, and approval workflows.
- Designed and developed high-throughput Spring Boot microservices handling ~50,000 API calls per day with sub-200ms response times, ensuring reliable performance under sustained production load.
- Owned end-to-end product delivery in a Scrum environment — daily stand-ups, weekly sprints, and weekly client demo calls to showcase newly built features and gather feedback.
- Collaborated directly with business users across Agile cycles including sprint planning, requirement workshops, UAT support, and production deployments, driving the product to a successful go-live in July 2022.
- Relocated on-site to Malaysia to collaborate directly with client stakeholders and lead continuous platform enhancements through delivery.

Software Engineer — IoT Platform Jan 2020 – Jun 2021

Tata Consultancy Services (TCS) — Client: Vodafone Idea Ltd. (IoT Platform)

India

- Designed and implemented the complete Reverse Logistics Module supporting device replacement, returns, lost-device processing, and lifecycle management for enterprise IoT solutions.

- Architected a reusable, metadata-driven CRUD framework enabling configurable database operations, significantly reducing repetitive development effort across the platform.
- Developed backend services using Java, Spring Boot, Hibernate, JDBC, and MySQL, ensuring maintainable, scalable, and production-ready architecture.
- Delivered multiple enterprise features following Agile practices in close collaboration with business teams.

AI & INNOVATION

Enterprise Telecom Order Recovery Agent Sep 2025 – Present

Generative AI / Agentic Systems — Proof of Concept

- Designed and developed an AI-powered Order Recovery Agent to automate telecom BSS order-recovery workflows.
- Built intelligent multi-agent orchestration using LangGraph and LangChain for enterprise workflow automation.
- Implemented Retrieval-Augmented Generation (RAG) over telecom SOP documentation to identify failed order states and recommend automated recovery actions.
- Leveraged OpenAI, Anthropic Claude, ChromaDB, MCP, and prompt-engineering techniques to build enterprise AI proofs-of-concept.

TECHNICAL SKILLS

Backend: Java, Spring Boot, Spring MVC, Spring Cloud, Hibernate, Spring Data JPA, REST APIs, Microservices, Distributed Systems

Databases & Caching: MySQL, MariaDB, Oracle, Redis

Cloud & DevOps: Git, GitLab, GitHub, Jenkins, Maven, Docker, CI/CD, Swagger, Postman

Testing, Automation & Quality: Playwright (E2E test automation), JUnit, SonarQube

Generative AI & LLM: LangChain, LangGraph, RAG, MCP, OpenAI API, Anthropic Claude, ChromaDB, AI Agents, Prompt Engineering

Architecture: API Design, System Integration, Performance Optimization, Enterprise Applications, Production Support

Leadership: Technical Solutioning, Client Consulting, Team Leadership, Code Reviews, Agile Delivery, Sprint Planning, Production Releases

Languages: Java, SQL, Python (Intermediate), JavaScript (Familiar)

Tools & IDEs: Eclipse, Spring Tool Suite, VS Code, IntelliJ IDEA, Kiro, JUnit

KEY ACHIEVEMENTS

- Contributed to the successful Celcom–Digi platform consolidation, enabling backend optimization and migration for ~3 million subscribers.
- Progressed from Software Engineer to Technical Team Lead, owning solution design, engineering delivery, and client engagement.
- Selected for an onsite assignment in Malaysia to collaborate directly with CelcomDigi stakeholders and lead enterprise software delivery.
- Built an AI-powered telecom Order Recovery Agent using LangChain, LangGraph, and RAG to automate order-recovery workflows.

CERTIFICATIONS

- Microsoft Certified: Azure AI Engineer Associate (AI-102)
- Microservices Architecture with Spring Boot & Spring Cloud — Udemy

EDUCATION

Bachelor of Technology, Computer Science Engineering

B. S. Anangpuria Institute of Technology & Management