

Nipun Sharma

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Software Engineer | Copenhagen, Denmark

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Summary

Backend Engineer with 7+ years of experience designing and operating Java-based microservices at scale. Expert in Spring Boot, cloud-native architectures, containerized systems, and event-driven platforms. Worked on modernizing legacy systems, optimizing performance, and delivering production-ready services with deep observability. Actively developing agentic AI solutions and MCP servers to simplify complex backend–database interactions and accelerate developer productivity. Committed to building reliable, maintainable, and high-impact software for real business challenges.

Work Experience

Software Engineer

Maersk - Copenhagen, Denmark

February 2023 — Present

Platform Modernization & Performance

- Modernized legacy Java 8 services to Spring Boot 21, reducing application startup times by 90% (from 60s to under 6s) and improving overall service performance
- Upgraded microservices to 12-factor-app guidelines, enabling seamless migration to Azure cloud
- Optimized backend services to reduce SonarQube-reported issues by 85%, improving maintainability and code quality

CI/CD & Quality Engineering

- Integrated microservices into GitHub CI pipelines with automated tests, ensuring build integrity **under 10 minutes**
- Increased automated integration and component test coverage to 50%, enforcing CI quality gates using JUnit, Mockito, SonarQube, and code scanning tools

Event-Driven Systems & Messaging

- PTL System Integrations using Kafka for real-time data, **achieving sub-100ms latency** for event-driven architectures
- Enhanced customer onboarding processes, reducing data processing times by 50%, driving operational efficiency and cost savings

Automation & Developer Productivity

- Developed external file scanning using Spring AOP for Endpoints, reducing manual effort to near-zero per service
- Applied agentic AI & MCP servers to accelerate backend workflows and system intelligence API & 7k+ Stored Procs

Software Engineer

TDC - Tata Consultancy Services - Copenhagen, Denmark

December 2018 — February 2023

Backend Modernization & Reliability

- Migrated legacy applications from Java 1.8 to 17 and MySQL 5.1.x to 8.0, reducing time-to-market by up to 90%
- Designed highly redundant backend microservices, ensuring 99.99% service availability for telecom users
- Optimized heap memory usage under high load by 50%, improving system stability

Event-Driven Systems & Messaging

- Established Kafka to handle extensive traffic from multiple data sources with <10ms latency
- Built a SOAP library to interact with Cisco Broadworks, handling 7,500+ SOAP requests reliably

Automation & Developer Productivity

- Developed Python frameworks to automate modular scripts in under 10 minutes, improving operational efficiency
- Re-designed monitoring scripts for operations teams, enabling automated web scraping every 2 minutes
- Migrated and optimized legacy code using Lombok and SonarLint, reducing technical debt by 80%

Cloud & Observability

- Adapted applications for 12-factor cloud readiness using Spring Cloud, actuators, metrics, and Spring Admin
- Improved test coverage and CI/CD integration to ensure production-ready deployments

Skills

Backend & Platforms: Java (8–21), Spring Boot, REST, SOAP, Microservices, Event-driven architecture, Kafka, Integration & Component Testing

Databases & Data Access: MS SQL, MySQL, PostgreSQL, MongoDB, Flyway, schema migrations, API-to-database abstraction (7,000+ stored procedures)

Cloud & DevOps: Docker, Docker Compose, Azure, Git, GitHub Actions (CI/CD), SVN

Observability & Quality: OpenTelemetry, Prometheus, Grafana, Loki, SonarQube, JUnit, Mockito, TDD

Agentic AI & Automation: MCP servers (MSSQL, Atlassian) for workflow automation and backend–database simplification, LLM-assisted coding, testing, and documentation (Claude Sonnet 4.5, GPT-5)

Education

Master of Computer Applications

SASTRA University - Tamil Nadu (August 2019 to Feb 2022)

Bachelor of Computer Applications

Ambedkar Institute of Technology - New Delhi (August 2015 to June 2018)

Senior Secondary

Shaheed Rajpal DAV Public School - New Delhi (August 2013 to June 2015)

Notable Achievements

- Reduced backend service processing times by 50% through architectural modernization and performance optimization, improving system scalability and operational efficiency.
- Implemented Kafka-based event-driven solutions and optimized CI/CD pipelines, reducing deployment times by 50% and increasing release frequency.
- Simplified complex backend–database workflows using MCP servers and agentic AI, accelerating developer productivity and reducing manual effort for 7,000+ stored procedures.

Trainings & Internships

- Ignite Android AI/ ML trainee (Tata Consultancy Services July 2018 – December 2018)
- Android Developer (Kin Infotech Pvt. Ltd. November 2017 – June 2018)