Nishant Raj

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Professional Summary

Experienced Java Backend Engineer with **4 years+** of expertise in designing and scaling enterprise-grade microservices using **Spring Boot**, **Hibernate**, and **REST APIs**. Proven track record in building high-performance systems on **GCP**, optimizing JVM performance, and implementing robust CI/CD pipelines. Skilled in leveraging **Agentic AI** and **GitHub Copilot** for accelerated, intelligent code generation. Strong advocate of Agile practices, clean code, and test-driven development. Adept at solving complex backend challenges with a focus on scalability, reliability, and developer productivity.

EDUCATION

Dr. Akhilesh Das Gupta Institute of Technology and Management, New Delhi 08/2016 – 11/2020
Bachelor of Technology - Computer Science Engineering; GPA: 7.63/10

TECHNICAL SKILLS

Programming Languages: Java Core, Java 8, SQL
Frameworks: Spring Boot, Spring MVC, Spring Security, Spring Data JPA, Hibernate, JUnit 5, Mockito, RESTful APIs
AI Tools: GitHub Copilot, Agentic AI, Vibe Coding
Microservices: JWT, RBAC, Apache Kafka, OpenAPI/Swagger, Threading, HikariCP
Tools: Git, GitHub, Jenkins, Docker, Maven, Postman, GitLab
IDEs: IntelliJ IDEA, Eclipse, VS Code
Databases: IBM DB2, MySQL, Oracle DB
Cloud & Monitoring: GCP, Azure AZ-900, AWS **(S3)**, GCP Log Server, Log4j, Docker
Others: SDLC, Microservices, Object-Oriented Programming, Agile Software Development

WORK EXPERIENCE

Tata Consultancy Services (TCS) 01/2023 – Present
Java Backend Engineer *Noida, India*
Government e Marketplace (GeM) | Java, Spring Boot, OpenAPI, GitHub Copilot

- Modernized India's largest public procurement platform, **gem.gov.in**, handling transactions worth over **Rs 3 lakh crore**.
- Architected scalable microservices using **Spring Boot** and **Java** for seamless onboarding of **1M+** government users.
- Defined API contracts using **OpenAPI 3.0**, ensuring consistent integration across **15+** modules.
- Leveraged AI tools (**Agentic AI**, **GitHub Copilot**) for intelligent code generation, reducing boilerplate development by **40%**.
- Applied **SOLID principles** and design patterns (**Factory, Strategy**) to improve modularity and reduce technical debt.
- Optimized **JVM performance** via G1GC tuning, reducing latency spikes by **35%** during peak load.
- Developed a **Process Automation Rules Engine** using **Drools (BAMOE)**, enabling automated decision-making for complex procurement workflows.
- Integrated **Drool Engine** rules with microservices, improving efficiency of business rule execution and reducing manual intervention by **50%**.

Walgreens Boots Alliance | Java, Hibernate, JUnit, Jenkins, API

- Reduced critical downtime by **60%** via proactive fault detection and alerting mechanisms.
- Integrated **Worldpay** gateway, reducing failed transactions by **90%**.
- Developed robust payment module using **Java**, **Hibernate**, **JPA**, **Lombok**, streamlining transactions across **8+** services.
- Increased test coverage to **85%** using **JUnit 5** and **Mockito**, reducing post-deployment bugs by **20%**.
- Automated CI/CD pipelines using **Jenkins** and **Docker**, reducing release cycles by **40%**.

Carasoft | Spring Security, Apache Kafka, JWT, Log4j, RBAC

- Redesigned user notifications module, increasing engagement by **40%**.
- Implemented **RBAC** and **JWT authentication**, cutting access-related bugs by **90%**.
- Improved root cause analysis by **45%** using structured logging with **Apache Log4j**.
- Used **Apache Kafka** for event-driven communication, improving system resilience.

Tech Mahindra (TechM) 08/2021 – 09/2022
Associate Software Engineer *Noida, India*
Mountain Crew | DB2, MySQL, HikariCP, GCP Logging, Multithreading

- Managed module-wise documentation for data flows, mappings, and exception handling.
- Optimized DB operations via JDBC connection pooling with **HikariCP**.
- Implemented multi-threaded processors using **Fork-Join** and **Executor Framework**, improving speed by **50%**.
- Diagnosed incidents via **GCP Log Server**, reducing MTTR by **30%**.
- Improved query performance by **50%** via indexing and SQL optimization in **DB2** and **MySQL**.
- Participated in Agile sprints using **Jira**, including stand-ups and code reviews.