

# Ayush Kumar

## Senior Java Full Stack Developer

Noida, India

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[Portfolio](#)

### Professional Summary

Results-driven **Senior Java Full Stack Developer** with **4.5+** years of expertise in designing enterprise-grade applications using **Java 21**, **Spring Boot 3.x**, **Microservices**, and **RESTful/GraphQL APIs**. Proficient in **React.js**, **TypeScript**, **AWS**, **Docker/Kubernetes**, and **CI/CD**. Proven track record in **Telecom & Banking** domains with expertise in secure payment systems and high-performance transaction processing. Strong advocate of **Agile methodologies, design patterns**, and **clean code principles**.

### Technical Skills

<b>Languages:</b>	Java 8/11/17/21, JavaScript (ES6+), TypeScript, Python, SQL, PL/SQL
<b>Backend:</b>	Spring Boot 3.x, Spring Security, Hibernate, Microservices, RESTful APIs, GraphQL
<b>Frontend:</b>	React.js 18, Next.js 14, Redux, TypeScript, Tailwind CSS
<b>Cloud &amp; DevOps:</b>	AWS (EC2, S3, Lambda), Docker, Kubernetes, Jenkins, CI/CD
<b>Databases:</b>	PostgreSQL, MySQL, Oracle, MongoDB, Redis
<b>Message Queues:</b>	Apache Kafka, JMS
<b>AI &amp; Emerging:</b>	Generative AI, LLM Integration, OpenAI API, MCP Servers, Agentic AI
<b>Tools:</b>	Maven, Gradle, JUnit, Mockito, Postman, Swagger, JIRA, Git

### Professional Experience

#### Senior Software Engineer - I

HCL Software – Pune, India

Apr 2025 – Present

- Developed cloud-native **microservices** using **Java 21** and **Spring Boot 3.x**, improving system throughput by 20% and reducing response time by 35%.
- Designed **RESTful APIs** and **GraphQL** endpoints using **PostGraphile**, auto-generating APIs from **PostgreSQL** schemas, reducing backend development time by 30%.
- Orchestrated containerized deployments using **Docker** and **Kubernetes** with auto-scaling, ensuring 99.9% uptime during peak traffic.
- Built responsive frontend modules using **React.js 18**, **Next.js 14**, and **TypeScript** with SSR/SSG, boosting page load speed by 40%.
- Implemented **Spring Security** with **OAuth 2.0/JWT** authentication and Role-Based Access Control (RBAC) for secure API endpoints.

#### Software Development Senior Analyst

Accenture – Noida, India

Oct 2024 – Apr 2025

#### Project: Central Bank of UAE (CBUAE)

- Designed **RESTful APIs** using **Spring Boot** for core banking operations including account management, transaction processing, and payment gateway integration.
- Implemented fault-tolerant **microservices architecture** using **Spring Cloud** and **Eureka**, reducing service coupling and improving system resilience.
- Developed batch processing jobs using **Spring Batch**, handling 100K+ daily transaction reconciliations with automated retry mechanisms.
- Integrated **Apache Kafka** for event-driven architecture, enabling real-time transaction notifications and audit trail logging for regulatory compliance.
- Applied **TDD** methodology with **JUnit** and **Mockito**, maintaining 85%+ code coverage and ensuring zero critical bugs in production.

### Project: Ordering Management System (OMS) - Telecom Platform

- Developed enterprise-grade **Java/J2EE** applications using **EJB 3.0** and **WebLogic Server** for order processing serving 5M+ subscribers.
- Refactored legacy monolithic modules into modular components following **MVC architecture**, improving code maintainability by 40%.
- Integrated **JMS** asynchronous messaging with reliable order provisioning workflows.
- Optimized **SQL/PL/SQL** queries on **Oracle Database**, improving query execution time by 60% for datasets with 10M+ records.
- Established **CI/CD pipelines** using **Jenkins** and **Maven**, automating build, test, and deployment processes.

### Personal Projects

#### MCP-Powered REST/GraphQL API Generator

[GitHub](#)

- Built an intelligent **MCP Server** that auto-generates production-ready **REST** and **GraphQL CRUD APIs** from **Mermaid ER diagrams**.
- Developed using **Node.js**, **TypeScript**, **PostgreSQL**, and **Model Context Protocol (MCP)** for seamless AI-agent integration.
- Implements automatic schema validation, DDL generation, database synchronization, and API server deployment with zero manual coding.
- Features real-time ER diagram parsing, entity relationship mapping, and dynamic REST/GraphQL endpoint generation.

#### AI-School: Intelligent School Management System (SaaS)

[Live Demo](#)

- Full-stack **SaaS** platform using **Spring Boot**, **Node.js**, **GraphQL**, **PostgreSQL**, and **Next.js 14** with **TypeScript**.
- Integrated **Generative AI** using **OpenAI API** and **MCP Server** for student performance analysis and automated report generation.
- Deployed **Agentic AI** workflows to autonomously analyze data and generate personalized learning recommendations.
- Secured with **Spring Security OAuth 2.0/JWT** and deployed on **AWS** using **EC2**, **S3**, **RDS** with **Docker** and **CI/CD pipeline**.

### Education

#### Bachelor of Engineering in Computer Science MMIT, Pune University – Pune, India (CGPA: 8.0/10.0)

July 2017 – June 2021

### Certifications

#### Java Spring Framework Masterclass (Udemy) Docker & Kubernetes Mastery (Udemy)

#### Microservices with Spring Boot (Udemy) Data Analytics Professional Certificate (IBM)

### Key Achievements

- Reduced API response time by 35% through database optimization and Redis caching implementation
- Successfully migrated legacy monolithic application to microservices, improving scalability by 3x
- Mentored 5+ junior developers on Spring Boot, design patterns, and best coding practices
- Recognized with "Rising Star Award" at HCL Software for exceptional Import/Export ETL development