

# Ayush Kumar

## Senior Java Full Stack Developer

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### Summary

Results-driven **Senior Software Engineer** with **4.5+ years** of expertise in architecting high-performance enterprise applications using **Java**, **Spring Boot**, and **Microservices**. Proficient in full-stack development with **React.js** and **GraphQL**, delivering scalable cloud-native solutions on **Docker** and **Kubernetes**. Proven track record of optimizing database performance, implementing secure **JWT** authentication, and driving **CI/CD** automation. Passionate about distributed systems and leveraging **GenAI** to drive business innovation.

### Technical Skills

<b>Backend:</b>	Java 21, Spring Boot 3, Microservices, GraphQL, PostGraphile, Spring Security, REST APIs
<b>Frontend:</b>	JavaScript (ES6+), TypeScript, React.js, Next.js, Tailwind CSS, Redux, HTML5, CSS3
<b>AI &amp; Emerging Tech:</b>	<b>Generative AI (GenAI)</b> , <b>Agentic AI</b> , OpenAI API, LLM Integration, RAG Pipelines
<b>Database:</b>	PostgreSQL, Oracle SQL, MySQL, MongoDB, Redis (Caching), Spring Data JPA
<b>DevOps &amp; Tools:</b>	Docker, Kubernetes, Jenkins, Git/GitHub, Maven, Gradle, JIRA, Postman, AWS (Basic)

### Education

<b>MMIT, Pune University</b> – Pune, India <i>Bachelor of Engineering in Computer Science (CGPA: 8.0)</i>	<i>July 2017 – June 2021</i>
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### Experience

<b>Senior Software Engineer - I</b> <i>HCL Software</i>	<i>Pune, India</i> <i>Apr 2025 – Present</i>
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- Architecting cloud-native **microservices** for HCL's commerce platform using **Java 21**, **Spring Boot**, and **Redis**, improving system throughput by 20%.
- Implemented instant runtime APIs using **PostGraphile** to auto-generate high-performance **GraphQL** endpoints directly from **PostgreSQL** schemas, reducing backend boilerplate code by 30%.
- Orchestrating containerized deployments via **Docker** and **Kubernetes**, ensuring 99.9% uptime and seamless auto-scaling during peak loads.
- Engineered responsive frontend modules using **React.js** and **Next.js**, integrating Server-Side Rendering (SSR) to boost SEO and load performance.
- Secured application endpoints using **Spring Security** and **JWT** (JSON Web Tokens) for robust Role-Based Access Control (RBAC).
- Optimized data retrieval latency by implementing **Redis** distributed caching strategies for session management and frequent queries.
- Driving code quality standards through strict peer reviews, **JUnit**/**Mockito** testing, and adherence to Agile/Scrum delivery cycles.

<b>Software Development Senior Analyst</b> <i>Accenture</i>	<i>Noida, India</i> <i>Oct 2024 – Apr 2025</i>
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- Spearheaded the backend development of a secure digital banking onboarding module, ensuring compliance with financial data encryption standards.
- Developed fault-tolerant **Spring Boot** microservices, utilizing **Feign Clients** for inter-service communication and reducing dependency coupling.
- Implemented high-volume batch processing using **Spring Batch**, handling daily transaction reconciliations with automated retry mechanisms.

- Automating critical reporting tasks using **Quartz Scheduler**, reducing manual operational overhead by 40%.
- Collaborated in an **Agile** environment to deliver iterative updates, conducting sprint planning and retrospectives to refine team velocity.
- Enforced Test Driven Development (TDD) by maintaining 85%+ code coverage using **JUnit** and **Mockito**.

## Software Developer

*Amdocs*

*Gurugram, India  
Aug 2021 – Oct 2024*

- Contributed to the core development of the Ordering Management System (OMS), a mission-critical telecom application serving millions of subscribers.
- Refactored legacy monolithic modules into modular components using **Java**, **EJB**, and **WebLogic Server**, enhancing maintainability.
- Integrated **SOAP** web services and **JMS** queues to facilitate asynchronous messaging and reliable order provisioning workflows.
- Optimized complex **PL/SQL** queries on **Oracle DB**, reducing query execution time for large-scale datasets.
- Leveraged **Jenkins** for CI/CD pipeline management and **Bitbucket** for version control to streamline build and deployment processes.

## Projects

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### AI-School: Smart Management System

[Live Demo](#) 

- Developing a full-stack SaaS solution for educational institutions using **Node.js**, **GraphQL** and a **Next.js** frontend.
- Integrated **GenAI** capabilities to provide AI-driven insights, including smart attendance tracking and automated student performance summaries.
- Deployed **Agentic AI** workflows to autonomously analyze large datasets and generate actionable administrative reports without manual intervention.
- Built a real-time analytics dashboard using **Recharts** and **Tailwind CSS**, allowing admins to visualize fee trends and academic metrics.
- Secured the application with **Spring Security OAuth2** and implemented a multi-tenant database architecture.

## Certifications

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**Microservices with Spring Boot** (Coursera)  
**Java Spring Framework** (Udemy)

**Docker Kubernetes Mastery** (Udemy)  
**Data Analytics Professional** (IBM)