Ayush Kumar

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Summary

Senior Software Engineer with **4 years** of hands-on experience building enterprise-grade applications using **Java**, **Spring Boot**, **Microservices**, and modern front-end technologies. Skilled in architecting scalable systems, cloud-native deployment, and cross-functional collaboration. Passionate about clean code, system optimization, and DevOps culture.

Education

MMIT, Pune *July 2017 – June 2021*
Bachelor of Engineering in Computer Science (CGPA: 8.0)

Experience

Senior Software Engineer - I *Pune, India*
HCL Software *Apr 2025 – Present*

- Developing cloud-native microservices for HCL's commerce platform using **Java**, **Spring Boot**, and **Redis**
- Designing scalable **REST APIs** with **Spring MVC** and **Spring Data JPA** for seamless communication between services
- Containerizing microservices using **Docker**, orchestrated via **Kubernetes** for efficient deployment and scaling
- Developing responsive frontend components using **React** and integrating them with backend services via REST APIs
- Creating server-rendered pages and API routes using **Next.js** for SEO-friendly, high-performance web applications
- Using **JWT** and **Spring Security** for secure authentication and role-based authorization
- Applying caching strategies with **Redis** to optimize data retrieval and session management
- Conducting code reviews, writing unit/integration tests, and following **Agile/Scrum** practices for continuous delivery

Software Development Senior Analyst *Noida, India*
Accenture *Oct 2024 – Apr 2025*

- Contributed to a secure digital onboarding module with end-to-end backend logic and encryption flows
- Developed scalable **Spring Boot** applications with a **microservices** architecture for the banking domain, leveraging **Spring MVC** and **Spring Data JPA** for efficient inter-service communication
- Built secure and robust **REST APIs** using **Spring Security** with **JWT**-based authentication and role-based authorization
- Scheduled and executed **Spring Batch** jobs for large-scale data processing with fault tolerance and retry mechanisms
- Utilized **Quartz Scheduler** to manage recurring background jobs and automate critical reporting tasks
- Followed **Agile** methodologies including sprint planning, daily standups, and retrospectives to ensure iterative delivery
- Conducted peer code reviews, implemented unit/integration testing using **JUnit** and **Mockito** to ensure high-quality deliverables

Software Developer *Gurugram, India*
Amdocs *Aug 2021 – Oct 2024*

- Contributed to the development and maintenance of the telecom domain-focused **Ordering Management System (OMS)** at **Amdocs**, a large-scale product-based enterprise application
- Designed and implemented business logic using **Java**, **EJB**, and **WebLogic Server** in a highly modular, layered architecture
- Integrated **SOAP**-based web services and internal **APIs** to handle complex telecom order lifecycle operations
- Worked extensively with **JMS** for asynchronous messaging and reliable communication across distributed components
- Developed database interaction layers using **Oracle**, including **PL/SQL** queries and performance tuning for large datasets
- Participated in **Agile** development lifecycle: sprint planning, daily standups, demos, and retrospectives
- Collaborated with cross-functional teams including **QA**, **DevOps**, and **Business Analysts** to deliver high-quality product increments
- Utilized tools such as **Jenkins**, **Maven**, **Git**, and **JIRA** for **CI/CD**, build automation, version control, and issue tracking
- Conducted debugging, unit testing, and production issue resolution to maintain system stability and performance

Projects

AI-School: Integrated Modern AI *In Progress*

- Ongoing development of a comprehensive school management system designed to address the modern challenges of digital education infrastructure
- Built using a microservices architecture powered by **Spring Boot**, **Spring Security**, and **Spring Data JPA** for robust backend operations
- Frontend developed with **Next.js** and **Tailwind CSS** for a responsive, scalable, and interactive user interface
- Integration with **OpenAI APIs** to enable AI-assisted features such as smart attendance analytics, report generation, and chatbot-based student/parent interaction
- Interactive dashboards and visual analytics powered by real-time graphing libraries to track student performance, attendance, and fee metrics
- Includes role-based modules for **Students**, **Teachers**, **Admins**, and **Parents** with secure **JWT**-based authentication
- Designed to streamline administrative tasks, enhance academic visibility, and offer intelligent insights to all stakeholders in the educational ecosystem

Technologies

Languages: Java, **JavaScript**, **SQL**, **HTML**, **CSS**, **TypeScript**

Frameworks/Tools: Spring Boot, **Spring Security**, **Spring Data JPA**, **Microservices**, **React**, **Next.js**, **Tailwind CSS**, **Docker**, **Kubernetes**, **Jenkins**, **Redis**, **MongoDB**, **PostgreSQL**, **Oracle**

Other: Git, **Bitbucket**, **JIRA**, **Agile**, **Maven**, **Gradle**, **JUnit**, **Mockito**, **OpenAI API**, **CI/CD**, **WebLogic Server**, **SOAP**, **JMS**, **EJB**

Certifications

Java Spring Framework with Spring Boot – Udemy
Java Certification – HackerRank
Python Programming – Microsoft
Data Analytics – IBM
Microservices with Spring Boot – Coursera
Docker Kubernetes – Udemy