# AYUSH KUMAR SINGH

## JAVA BACKEND DEVELOPER

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## SUMMARY

Results-driven **Java Developer** with **3+ years of expertise** in building secure, scalable, and high-performance applications. Highly proficient in **Java, Spring Boot, Microservices, and RESTful APIs**, with strong expertise in applying **SOLID principles** and clean code practices. Skilled in **performance optimization, troubleshooting, and delivering seamless user experiences** while collaborating cross-functionally in **Agile environments**. Adept at driving engineering excellence through problem-solving, innovation, and a commitment to best practices. Seeking a **challenging opportunity** to leverage technical expertise and contribute to impactful backend solutions.

## TECHNICAL SKILLS

- **Languages:** Java, HTML, CSS, SQL
- **Databases:** Oracle, MySQL, PostgreSQL, Redis
- **Frameworks:** Spring Boot, RESTful Web Services, Microservices ,Kafka ,AWS ,Hibernate
- **Developer Tools:** Git, IntelliJ, Eclipse, STS, Docker, VS Code, Linux, Maven, JIRA, WinSCP, PuTTY
- **Testing and Code Coverage:** JUnit, Mockito, JaCoCo ,Postman, Swagger
- **Methodologies/Deployment  Tools:** Agile/Scrum , Docker , K8S Basics

## WORK EXPERIENCE

**Product Engineer , Tata Consultancy Services Ltd**                    **May 2022 - Present**

- **Refactored monolithic architecture to microservices**, enhancing modularity and reducing deployment downtime.
- Developed and maintained **SpringBoot microservices**, boosting core product performance by **30%**.
- Designed and integrated **RESTful APIs**, reducing average **response times by 25%.**
- Used **Spring Cloud Config and Eureka** for **centralized configuration and service discovery.**
- Improved database performance by **35%** using **Spring Data JPA**, optimized queries, and caching.
- Integrated Apache **Kafka** for **asynchronous communication**, reducing **latency by 25%**.
- Created and maintained **unit and integration tests** with **JUnit and Mockito**.
- **Documented APIs** using **Swagger**; built **architecture diagrams** to improve team clarity.
- Collaborated in **Agile/Scrum** teams with active participation in daily stand-ups and sprint planning.

## PROJECTS

**E-Commerce Backend System (Java, Spring Boot, MySQL, Spring Security)**

- Built backend modules for **product catalog, user accounts, shopping cart,orders,and payments.**
- Implemented **role-based access** using **Spring Security**.
- Used **Spring Data JPA** for efficient database operations with **custom queries.**
- Applied **Spring AOP** for **logging, exception handling, and validation**.
- Developed **Swagger documentation** and tested APIs with **Postman**.

## EDUCATION

**Bachelor of Technology**                                                        **Aug 2017 - July 2021**
JSS Academy of Technical Education, Noida

## ACHIEVEMENTS

- **Star of the Month –** multiple recognitions for outstanding backend delivery.
- **Best Team Award –** recognized for team collaboration and execution.
- **Service and Commitment Award** – for organizational contributions.
- **Appreciation & Service Awards** – for consistent project contributions.