ALOK KUMAR

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Goal-oriented professional targeting roles in Java Backend Development to build scalable, secure, and efficient server-side solutions while contributing to the growth and innovation of a dynamic organization.

PROFILE SUMMARY

- Highly skilled **Software Engineer** with **5 years of experience** in designing and delivering **scalable, high-performance Java applications** across multiple domains.
- Proven expertise in **Java**, **Spring Boot**, **Spring Cloud**, and **microservices architecture**, enabling **robust, distributed, and event-driven systems** that improved system reliability by **~25%**.
- Strong command over **Spring MVC, Spring Data JPA, and Spring Security** for developing secure, modular, and maintainable backend systems.
- Hands-on experience with **Confluent's Kafka** for messaging, event streaming, and real-time data processing.
- Skilled in **unit and integration testing** using **JUnit and Mockito** to ensure code reliability and maintain high development standards.
- Experienced in **Agile Scrum environments**, participating in sprint planning, peer code reviews, and continuous delivery initiatives.
- Skilled in **performance tuning, caching (Spring Cache)**, and **database optimization** to improve application response times by **20–30%**.
- Strong focus on **code quality, security enhancements**, and best practices in software architecture.
- Excellent **problem-solving and analytical skills**, capable of resolving complex technical issues efficiently.
- Committed to **continuous learning**, staying up-to-date with the latest **tools, frameworks, and industry trends** to drive innovation.

CORE COMPETENCIES

- Java Development & Backend Engineering
- Spring Framework Ecosystem
- Microservices Architecture
- RESTful API Design & OpenAPI Documentation
- Database Management & Optimization
- Test-Driven Development (TDD)
- Message Brokers & Stream Processing
- Containerization & Orchestration
- Version Control & CI/CD
- API Security & Authentication
- Performance Tuning & Debugging
- Agile & Scrum Methodologies

EDUCATION

2016-19: B.Sc. from Utkal University, Bhubaneswar

TECHNICAL SKILLS

- **Programming Languages**: Java (JDK 1.8 - 17), SQL, HTML & CSS
- **Frameworks & Libraries**: Spring Boot, Spring MVC, Spring Cache, Spring Data JPA, Spring JDBC, Spring Security, Hibernate, Spring Scheduler, Spring Cloud, Microservices, SAGA, CircuitBreaker
- **Databases**: MySQL, PostgreSQL, MongoDB
- **Cloud Platforms:** AWS (EC2, RDS, S3, IAM, Lambda, CloudWatch), **PCF (Pivotal Cloud Foundry)**
- **DevOps & CI/CD Tools:** Jenkins, Git, Maven, Docker, Kubernetes, Codefresh, OpenShift,
- **Testing Tools & Frameworks:** Junit, Mockito
- **Messaging:** Confluent's Kafka
- **Monitoring & Security Tools:** Black Duck, Checkmarx
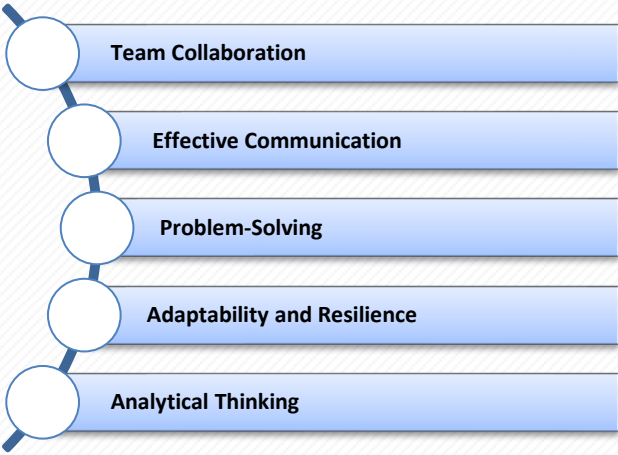- **Development & Utilities:** Postman, IntelliJ IDEA, Apache Tomcat, MySQL Workbench, pgAdmin

SOFT SKILLS

- Team Collaboration
- Effective Communication
- Problem-Solving
- Adaptability and Resilience
- Analytical Thinking

💼 WORK EXPERIENCE

Oct'20 – Present: Tech Mahindra | Software Engineer

Key Result Areas:

- Designed, developed, and maintained **scalable, high-performance backend services** using **Java**, **Spring Boot**, and **microservices architecture**.
- Collaborated with **cross-functional teams** to analyze business requirements, design solutions, and deliver high-quality software within Agile sprints.
- Implemented **RESTful APIs** and integrated **third-party services** to extend application capabilities and improve customer experience.
- Enhanced application performance through **code reviews**, **debugging**, and **refactoring**, achieving measurable improvements in efficiency and stability.
- Managed **data persistence layers** using Hibernate/JPA, ensuring optimal **query performance** and efficient interaction with relational databases.
- Applied **caching mechanisms** (Spring Cache) to reduce latency and improve response time in **high-traffic applications**.
- Built **modular, fault-tolerant microservices** with robust **inter-service communication** leveraging Spring Cloud components.
- Contributed to **CI/CD pipelines** using **Jenkins, Docker, and Kubernetes**, ensuring reliable deployment and automation.
- Participated in **peer code reviews**, **unit testing (JUnit, Mockito)**, and **performance tuning** to maintain code quality and system reliability.

💼 PROJECTS

Project 1: Assembly Common Configurator

Project Description: ACC application is meant for keep tracking all the details in car manufacturing plant. This is used in multiple manufacturing plant under Stellantis. Basically, it contains multiple components like Conveyor, Segment, Station. Through these components all car will be assembled in the manufacturing plant.

Technology Stack: JDK 17, Spring Boot, Microservices, MySQL, Git, IntelliJ, Tomcat, Maven, Black Duck, Checkmarx, **Codefresh**, OpenShift, SLF4J, Docker, Splunk.

Key Result Areas:

- Analyzed, designed, developed, and implemented user requirements with a focus on security and compliance.
- Built secure and scalable back-end services with Java and Spring Boot.
- Managed relational databases thus ensuring high availability and performance.
- Collaborated in a team environment using Git for source control and code reviews.
- Conducted performance tuning and ensured best coding practices and security standards.
- Developed unit, integration, and end-to-end tests to maintain application quality and reliability.

Project 2: Allstate Health Benefit (AHB)

Project Description: Allstate Health Benefit (AHB) is a comprehensive insurance platform aimed at securing individuals in the USA, Canada, and select other countries. The platform offers group and individual health insurance plans that vary based on the severity or criticality of diseases or incidents, tailored to comply with state-specific regulations. AHB provides a wide range of benefits to employees of partnered organizations, ensuring financial protection and access to effective treatment during critical illnesses, hospital stays, or accidents without financial burden.

Technology Stack: JDK 1.8, Spring Boot, Microservices, Spring Cloud, REST, Spring Data, MySQL, Git, IntelliJ, Tomcat, Maven, PCF (Pivotal Cloud Foundry)

Key Result Areas:

- Analyzed, designed, coded, and implemented user requirements for scalable application features.
- Developed robust back-end APIs and services using Spring Boot within a Microservices architecture.
- Integrated and managed relational database like MySQL and ensured data integrity.
- Utilized Git for version control and team collaboration.
- Ensured performance tuning, cross-platform optimization, and adherence to security best practices.
- Authored comprehensive unit, integration, and end-to-end tests to maintain code reliability.

Declaration

I hereby declare that the information provided above is true and correct to the best of my knowledge and belief.

Place: Bengaluru, Ind
Date: SIGNATURE

Alok Kumar

📇 PERSONAL DETAILS

Date of Birth: 5th April 1996
Languages Known: English, Hindi, Odia
Address: Bengaluru, India