Swathi Sangepu

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SOFTWARE ENGINEER | JAVA DEVELOPER

Highly skilled and detail-oriented **Java Full Stack Developer** with over **2.5** years of experience in designing, developing, and maintaining scalable web applications. Proficient in **Java, Spring Boot, Hibernate, and RESTful APIs** on the backend, and adept in modern frontend technologies such as **React, and JavaScript**. Expertise in **Microservices architecture**, database management (**MySQL, SQL Server**) and cloud platform **Azure**. Strong problem-solving skills with a passion for writing clean, maintainable code. Committed to continuous professional development and staying abreast of the latest industry trends.

PROFESSIONAL EXPERIENCE

Java Full Stack Developer –IBM   July 2023-Present

Project: *Infinite(Mercedes-Benz)*
- Developed and optimized backend components using **Spring Boot**, improving system response times by 35% in high-traffic scenarios.
- Designed and implemented 30+ **RESTful APIs** to support seamless communication between front-end and back-end systems, ensuring 99% uptime and reliability.
- Streamlined **database** operations with efficient queries and indexing strategies, enhancing data retrieval speed by 40% for real-time analytics.
- Collaborated with cross-functional teams in an **Agile** environment to deliver project milestones 20% faster while maintaining high-quality code standards.
- Implementing feedback from user testing to refine design elements and ensure accessibility and responsiveness across devices.
- Debugged and resolved issues across different environments, including local, staging and production within tight timeframes.

Project: *BUSS-PROD-RUKPI(Mercedes-Benz)*
- Created and executed RESTful APIs and microservices using Spring Boot to support the functionality of the meeting booking system.
- Worked with relational databases (MySQL) to design and implement efficient data models, ensuring seamless integration between the back-end and the application's front-end.
- Integrated OAuth 2.0 and JWT for secure user authentication and authorization, ensuring that users could only access their relevant meeting information.
- Enhanced core business logic for meeting scheduling, including conflict detection, time zone handling, and user notifications, to ensure smooth booking and management processes.
- Streamlined APIs for speed and scalability to handle high volumes of requests, ensuring the application performed well under various load conditions.
- Wrote unit and integration tests using JUnit to ensure the reliability and correctness of the backend services.

EDUCATION

Bachelor of Technology (B. Tech) – Information Technology   2019-2023
Lakireddy Bali Reddy College of Engineering (9.39 CGPA)

PROJECTS

Hospital Management System

Technologies: Java | Spring Boot | Microservices | MySQL | Spring Security | JWT | API Gateway | Eureka | Thymeleaf | SendGrid

- Planned and initiated a scalable **microservices architecture**, improving modularity and reducing deployment downtime by **40%** through independent service releases.
- Improved secure **JWT authentication** and **role-based authorization** for Admin, Doctor, Staff, and Receptionist roles, reducing unauthorized access incidents by 60% and improving API security posture.
- Built REST APIs for **patient onboarding, staff/doctor management, appointment scheduling, and bed allocation,** reducing manual operational workload for hospital staff by **35%**.
- Integrated **Spring Cloud Gateway + Eureka Discovery**, improving routing efficiency and enabling seamless inter-service communication with **zero downtime** during service scaling.
- Produced an asynchronous **Notification Service** using SendGrid, delivering real-time appointment confirmations and alerts with **99% delivery success** and reducing follow-up calls by **50%**.
- Improved MySQL queries, indexing strategies, and service-level caching to reduce average API response time from **650ms → 220ms**, improving overall UI performance.

PROFESSIONAL SKILLS

- **Programming Languages:** Java, JavaScript, Python
- **Frontend Technologies:** HTML, CSS, React.js
- **Backend Technologies:** Spring Boot, Hibernate, RESTful APIs, Microservices
- **Databases:** MySQL, MongoDB
- **Version Control:** Git, GitHub
- **Cloud Platforms:** Microsoft Azure
- **Testing Frameworks:** JUnit
- **Other Tools:** Postman, Eclipse, Visual Studio Code

CERTIFICATIONS

Oracle Certified Professional: Java SE 11 Developer- 2024 Link

Microsoft Certified: Azure Fundamentals -2024 Link