Sumanth Kota

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Professional Summary

Senior Systems Engineer with 3.7+ years of experience in Java, Spring Boot, microservices, and REST API development. Skilled in building scalable, distributed systems on AWS, with expertise in Kafka, Redis, and Aurora RDS. Proven ability to optimize backend processes, implement real-time data pipelines, and deliver enterprise-grade solutions using object-oriented design patterns and data structures.

Skills

Languages: Java, Groovy, Python, SQL
Technologies & Tools: Microservices, AWS (EC2, Aurora RDS, VPC, Route 53, ECR, Code Pipeline, Code Build), Spring Boot, Spring MVC, Spring Data JPA, Spring Security, Spring Validation, Spring Cloud Consul, Redis, Kafka, Liquibase, REST APIs, Postman, Swagger, Maven, GitHub

Experience

Senior Systems Engineer | Infosys | March 2022 – Present

- Engineered **Spring Boot microservices** and **RESTful APIs** to deliver scalable, enterprise-grade applications, improving system reliability and maintainability.
- Automated **SFTP file validation and backend workflows**, reducing manual intervention and accelerating data integration by 25%.
- Applied object-oriented design and enterprise patterns (MVC, Singleton, Factory, DAO) to strengthen code quality and system scalability
- Implemented **unit and integration testing** with **JUnit** and **Postman**, embedding **TDD practices** to ensure robust software delivery and reduce production defects.
- Partnered with product owners and architects to define **technical standards**, guiding design decisions that enhanced system performance and scalability.
- Optimized **backend services and database queries** using **SQL** and **Aurora RDS**, reducing response times by 15% and enhancing application performance.
- Spearheaded **process improvements** through workflow optimization and **CI/CD enhancements**, achieving 30% faster release cycles and a 25% boost in overall operational efficiency for critical systems.

Projects

DoMyTurn – Full-Stack Home Management Application

- Built a **microservices-based application** with **Android frontend** and **Spring Boot backend**, deployed on **AWS**, delivering scalable and reliable user interactions.
- Implemented **secure authentication** using **JWT** and **Spring Security**, supporting multi-user role management and authorization.
- Introduced **real-time event handling** with **Kafka** for chore and home notifications, enhancing engagement, and delivered a **fault-tolerant AWS architecture** (**EC2, Aurora RDS, VPC, Route 53, ECR**) ensuring 99.9% uptime.
- Enabled **CI/CD automation** using **AWS Code Pipeline**, automating build, test, and deployment processes, reducing deployment time by 40% and improving release reliability.

Education

Bachelor of Technology in Computer Science – Gudlavalleru Engineering College, 2019