Yogesh Kumar Singh

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Professional Summary

Software Engineer with 1 years designing scalable Java and Spring Boot microservices, experienced with REST APIs, JWT auth, Docker, Redis, CI/CD, and system design. Proven record increasing reliability and reducing transaction failures significantly.

Technical Skills

Languages: Java, Python, SQL
Frameworks: Spring Boot, Spring Security, Spring Cloud, Feign, Resilience4j
Databases: PostgreSQL, MySQL, MongoDB, Redis
Cloud: AWS EC2, S3, AppConfig
DevOps/Tools: Git, Docker, Jenkins, Maven, Postman, JUnit, SonarQube, Fortify
Concepts: Microservices, REST APIs, JWT Authentication, Caching, CI/CD, SOLID, Agile, System Design, Linux

Experience

Systems Engineer, Tata Consultancy Services — Feb 2025 − Present
Noida, Uttar Pradesh, India

− Designed and deployed 20+ RESTful APIs for GeM 2.0 (Government e-Marketplace) using Spring Boot and PostgreSQL, improving response times by 30% and supporting 10k+ daily users.
− Built and maintained a scalable microservices architecture with Spring Cloud, improving service reliability and reducing release cycle time by 25%.
− Implemented automated CI/CD pipelines using Jenkins for seamless build, test, and deployment across multiple environments.
− Integrated AWS S3 for secure and efficient file storage and retrieval, streamlining document management workflows and reducing server load by 25%.
− Resolved Fortify and SonarQube issues by addressing critical and major vulnerabilities, ensuring compliance with secure coding and code quality standards.
− Deployed and configured microservices on AWS EC2, managing environment properties using AWS AppConfig.
− Orchestrated the creation and execution of over 100 JUnit and Mockito unit/integration tests, achieving 85% code coverage and cutting development defects by 40%, accelerating release cycles.
− Refactored legacy modules adhering to OOP principles, Controller–Facade-Service–Repository patterns, and SOLID design principles, reducing technical debt by 20%.
− Optimized API performance through Redis caching, efficient query design, and asynchronous message processing using Apache Kafka.
− Collaborated with cross-functional teams using Agile/Scrum methodology, contributing to sprint planning, code reviews, and continuous integration improvements.

Projects

PredictFlow - Smart Payment Retry Engine — Oct 2024 − Present

− Engineered payment retry system with 3 Spring Boot microservices, reducing failed retries by 60%.
− Implemented JWT authentication with Redis token blacklist and role-based access control for security.
− Developed rule-based retry prediction using error type, time, and retry count to prevent retry storms.
− Utilized Redis caching and Resilience4j circuit breaker patterns to ensure high availability.
− Containerized with Docker Compose for streamlined deployment and scalability.
− Achieved 85%+ test coverage with JUnit, enabling reliable production releases.

Education

KIET Group of Institutions — Nov 2020 − Jun 2024
Bachelor of Technology in Computer Science and Engineering — *CGPA: 8.0/10*

Achievements

- Open-Source Contributor, GSSOC 2023
- Global Nominee and Regional Winner, NASA Space Apps Challenge 2022
- Runner-up, THacks 2.0 Hackathon
- Contributor to Hacktoberfest, 2021 & 2022