CHANDU RAPARTHI

Junior Software Engineer – Backend Java Developer (3+ Years)
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SUMMARY

Java Backend Developer with over 3 years of experience designing and building secure, scalable, and high-performance enterprise applications. Proficient in Spring Boot and Spring Cloud for developing modular, RESTful microservices architectures. Experienced in implementing resilient, maintainable, and observable backend systems with strong problem-solving and collaboration skills.

TECHNICAL SKILLS

Backend & Frameworks
Java, Spring Boot, Spring Framework, Spring Security, Spring AOP, Hibernate, Spring Data JPA, Spring JDBC, Servlets/JSP, RESTful APIs, JWT, SLF4J, JUnit 5, Mockito, Maven

Microservices & Cloud
Microservices Architecture, Spring Cloud Gateway, Spring Cloud (Config Server, Eureka Naming Server, Resilience4j Circuit Breaker), OpenFeign, Apache Kafka, Load Balancer

Databases and Data Management
SQL, MySQL, PostgreSQL, MongoDB

Frontend Development
Basics of JavaScript, HTML, CSS, Bootstrap

Methodologies & Practices
Agile/Scrum, TDD, Clean Code, Design Patterns

Tools
Git, GitHub, GitLab, SonarQube, IntelliJ IDEA, Eclipse, Postman, Swagger/OpenAPI, JIRA

WORK EXPERIENCE

ASSOCIATE JAVA DEVELOPER
CYBROWSE DIGITAL SOLUTIONS PRIVATE LIMITED, Hyderabad
January 2023 – Present

- Design and build scalable backend systems using Java and Spring Boot with clean, layered architectures for maintainable enterprise applications.
- Develop and consume RESTful APIs with efficient request handling, proper HTTP methods, and structured response models for reliable inter-service communication.
- Build modular microservices that operate independently to ensure flexibility, scalability, and maintainability across distributed environments.
- Implement secure authentication and authorisation using Spring Security, JWT tokens, and role-based access control to protect REST endpoints and sensitive data.
- Integrate and optimise Hibernate/JPA for seamless interaction with MySQL and PostgreSQL databases, ensuring efficient data access and transaction management.
- Apply Resilience4j features such as Circuit Breaker, Retry, and Fallback to enhance service reliability and handle system failures gracefully.
- Implement asynchronous communication between microservices using Apache Kafka for a reliable, event-driven, and decoupled system design.
- Implement global exception handling, custom error responses, and data validation for consistent and user-friendly API behaviour.
- Write and maintain unit and integration tests using JUnit and Mockito, following test-driven development (TDD) principles for higher code reliability.
- Document, test, and verify REST APIs using Swagger (OpenAPI) and Postman to ensure quality and ease of integration.

- Manage code versions with Git and GitHub, actively participate in Agile/Scrum sprints, and contribute to peer code reviews and retrospectives.

PROJECTS

S-100 Hydrographic Data Exchange and Management System

06/2023 – Present

Description: Developed a secure, web-based platform for managing and packaging S-100 hydrographic exchange sets in compliance with IHO standards. Automated dataset validation, digital signing, and packaging through modular Spring Boot microservices with robust security, scalability, and resilience features.

Key Contribution

- Architected and developed a robust RESTful backend using **Spring Boot 3.x** and **Java 17** to automate the lifecycle of S-100 Exchange Sets, reducing manual creation time by **90%**.
- Implemented **SHA256withRSA** digital signatures using the **Bouncy Castle** library to ensure data integrity and non-repudiation for hydrographic datasets in compliance with strict IHO standards.
- Secured the application using **Spring Security** and **JWT (JSON Web Tokens)**, implementing stateless authentication and Role-Based Access Control (RBAC) to protect sensitive maritime data.
- Automated the generation of complex, standards-compliant XML catalog files using **Jackson XML**, eliminating manual errors and ensuring 100% schema validation.
- Designed a scalable workspace management system utilizing **PostgreSQL** (or H2) and efficient file I/O operations to handle large dataset uploads, validation, and storage.
- Built an automated packaging service using **Java Util Zip** to compress validated datasets and metadata into distribution-ready exchange sets.
- Wrote comprehensive unit and integration tests using **JUnit 5** and **Mockito**, achieving high code coverage for critical cryptographic and validation logic.

Environment: Java 17, Spring Boot 3, Spring Security, JWT, Bouncy Castle, Jackson XML, PostgreSQL, Docker, Maven, Git.

EDUCATION

Bachelor of Science in Computer Science, | 2022
Krishna University, Kanumolu, Andhra Pradesh