

SANTOSH PADHY


Software Engineer

Overall 5 years of experience in backend development.

PROFESSIONAL EXPERIENCE

Software Engineer

Tata Consultancy Services

 Oct 2022 – Present  Bhubaneswar, India

- Developed Spring Boot microservices for inventory management using Singleton, Factory, and Dependency Injection (DI), reducing stock errors by 18%.
- Implemented real-time inventory updates using Pub/Sub & Spring Events, cutting sync delays by 40%.
- Built rule-based validation engine with Strategy & Template Method patterns, automating stock checks.
- Optimized REST APIs with Redis caching, improving inventory lookup performance.
- Deployed event-driven microservices on Google Cloud Run, integrating Cloud Storage & Monitoring for scalability.
- Wrote unit test using JUnit and Mockito. Also maintained CI/CD pipelines using Jenkins X.
- Containerized Spring Boot microservices using Docker to ensure consistent deployment across environments and deployed cloud-native Java microservices using Docker and Kubernetes orchestration.

Backend Engineer

Capgemini India

 Jun 2020 – Oct 2022  Pune, India

- Developed and maintained Spring Boot applications with MySQL for data storage and processing, ensuring high performance and reliability.
- Enhanced the Clarity Timesheet application by implementing reporting and monitoring features, improving real-time visibility into project tracking.
- Automated data synchronization by designing CRON jobs to fetch and process data from legacy systems, reducing manual effort by 30%.
- Integrated CyberArk for secure credential management, strengthening application security and compliance with enterprise policies.
- Mentored and managed 2 interns, providing technical guidance and code reviews to support their contributions to the project.

SKILLS

Java, MultiThreading, Spring Boot, Swagger/OpenAPI Python, Git, Google Cloud, MicroServices, SQL, PostgreSQL, Docker, Kubernetes, Kafka, GCP - Cloud Run, BigQuery, BigTable, Pub/Sub, CloudSql, CloudStorage, DSA

PROJECTS

E-commerce MicroServices

- Designed and developed a scalable microservices-based e-commerce platform using Spring Boot and Spring Cloud, implementing core functionalities:
- Product Catalog with advanced search capabilities
- Razorpay Payment Gateway Integration for secure transactions
- Order Processing Service with inventory synchronization
- Notification Service with event-driven email delivery
- Implemented Elasticsearch for powerful product search, enabling dynamic filtering and sorting with sub-second response times
- Ensured system reliability through comprehensive unit testing using JUnit.
- Technologies: Spring Boot, Spring Cloud, MySQL, Redis, RazorPay, Elasticsearch.

EDUCATION

B.Tech. - Electronics and Communication Engineering (2015-2019)

GIET, Gunupur Biju Patnaik University of Technology

 CGPA: 7.00