

Karesse DSouza

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GitHub Link | LinkedIn Link

Summary

Detailed-oriented Software Engineer with 1 year of hands-on experience in backend development using **Java, Spring Boot, and REST APIs**. Strong problem-solving skills with a solid foundation in **Data Structures, Algorithms, OOP, and System Design**. Experienced in building and optimizing scalable **distributed systems**, working with relational (**MySQL, PostgreSQL**) and non-relational (**MongoDB**) databases, and deploying applications with **Docker and Kubernetes**. Passionate about exploring **AI-driven applications** and leveraging emerging technologies for intelligent system design.

Skills

Languages & Frameworks: Java, JavaScript, Spring, Spring Boot, JPA/Hibernate, JPA, JUnit, Mockito

Backend: REST APIs, Microservices

Databases: MySQL, MongoDB

Frontend: Angular, Reacts (basic)

DevOps: Docker, Kubernetes, AWS (basic), CI/CD (Jenkins, GitHub Actions)

AI Tools: OpenAI APIs, Copilot, ChatGPT

Concepts: Data Structures & Algorithms, OOP, System Design, Distributed Systems

Professional Experience

Cisco Systems India Pvt Ltd, Software Engineer Trainee

Aug 2024 – Aug 2025

- Designed and implemented scalable **RESTful APIs** using **Java, Spring Boot, and JPA**, reducing response latency by **30%** and improving API reliability to **99.9% uptime**.
- Developed and optimized backend modules for order management systems, handling **50K+ daily transactions** across distributed services.
- Automated recurring workflows with **JUnit & Mockito test cases**, increasing test coverage to **85%+** and reducing production bugs by **20%**.
- Improved query execution and storage efficiency in **MySQL/PostgreSQL**, cutting analytics report generation time by **40%**.
- Deployed microservices using **Docker and Kubernetes**, ensuring seamless scalability and reducing downtime during peak loads.
- Automated deployment workflows using **Jenkins and Git**, reducing release cycle time by **15%**.
- Collaborated cross-functionally with frontend teams using **Angular** to deliver end-to-end product features.
- Conducted **code reviews and refactoring** on Java/Spring Boot services, improving code maintainability **20%**.

Education

University of Pune (SPPU)

Aug 2019 – May 2023

Bachelor's Of Engineering in Computer Science

GPA: 8.59/10

Academic Projects

1. URL Shortener - Bitly Clone: Java, SpringBoot, JWT, MySQL, JPA

- Developed secure REST APIs with JWT authentication, blocking **90% of unauthorized access attempts**.
- Improved database query performance, reducing analytics report generation time by **50%**.

2. MoviMate - Movie API: Spring Boot, MongoDB, ReactJS

- Built REST APIs with pagination, filtering, and validation, achieving **99% uptime** in hosted environment.
- Reduced data retrieval latency by **40%** via hybrid schema (MySQL + MongoDB).

3. E-Commerce Application: Java, Spring Boot, H2 Database, JPA

- Designed backend APIs for product/order management and authentication, improving backend efficiency by **30%**.
- Implemented **in-memory H2 database**, accelerating prototype deployment and testing by **2 times**.

Certifications/Courses

- Cisco Qualified GenAI (Blue, Green, White Belt)
- Java Full Stack Development
- Oracle APEX Certified Cloud Developer Professional 1Z0-771
- MongoDB Java Developer
- Oracle SQL