

# Karesse DSouza

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GitHub Link | LinkedIn Link

## Summary

Detail-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