

Karesse DSouza

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Professional Summary

Software Engineer specializing in backend development with strong expertise in Java, Spring Boot, MongoDB, and Oracle SQL. Proven ability to design and build scalable microservices, optimize database performance, and develop data-driven enterprise applications. Proficient in creating RESTful APIs, managing Oracle database and NoSQL databases, and ensuring seamless integration between backend systems and frontend applications.

Technical Skills

1. Languages: Java, JavaScript, Oracle PL/SQL, HTML, CSS
2. Frameworks: Spring Boot, Angular, JUnit
3. Databases: Oracle 19c, MongoDB
4. Software Development: REST APIs, Microservices, Testing
5. Tools & Platforms: Spring Tool Suite, Postman, Maven, Git, Qwiet AI, GitHub Copilot, Oracle APEX

Education

Bachelor of Engineering (B.E) – Computer Science
Keystone School of Engineering, Pune

CGPA 8.59
Aug 2019 – Apr 2023

Experience

Software Engineer Trainee
Cisco Systems

Aug 2024 – Present
Bengaluru, Karnataka

1. Project: Oracle Database Purging - Spring Boot Microservices

- Designed and deployed Spring Boot REST APIs with Oracle DB ensuring 90% error-free operation.
- Automated index validation and partition purging, improving memory efficiency by 85%.
- Implemented role-based access control for 100–200 users enhancing application security and compliance.
- Engineered a real-time email alerting system, streamlining approval workflows by 75%.

2. Project: Continuous Stage Testing Tool (COT)

- Reduced legacy maintenance effort by 50% through scope modernization and cross-functional collaboration.
- Debugged legacy code to reduce production bugs by 40% and increase uptime by 70%.
- Resolved memory leaks through log analysis, boosting throughput by 70%.
- Fixed frontend and backend bugs, decreasing page load failures by 65%.
- Implemented RESTful web services to search scenarios and fetch test request orders from MongoDB collections based on user-entered fields by matching document fields for accurate

result filtering.

3. Project: Order Management & Search Dashboard

- Developed a responsive Angular frontend integrated with Spring Boot backend.
- Reduced backend data latency by up to 300 ms and query time by 65%.

4. Project: Security Vulnerability Fix – MongoDB Environment

- Identified and fixed 16+ critical vulnerabilities, reducing exposure by 75%.
- Performed dependency upgrades, resolved 265+ test case errors.
- Maintained 50+ Git commits across 2+ branches for secure deployments.

Projects

1. Client Management System | [GitHub](#)

- Developed a responsive web-based application using HTML, CSS, JavaScript, and Angular to manage clients and concurrent projects.
- MySQL backend integration with dynamic dashboards and secure data storage.
- Version-controlled the project using Git and hosted it publicly on GitHub for collaboration and deployment.

2. Travel App (Cab Booking Microservice App) | [GitHub](#)

- Designed and developed a backend application using Spring Boot and RESTful APIs to manage cab bookings and passenger profiles for a travel company.
- Implemented and tested key services including booking, customer management, and profile APIs using JUnit to ensure code reliability and maintain high test coverage.

3. Doctor Appointments App (Oracle APEX) | [GitHub](#)

- Built an Oracle APEX application to streamline doctor appointment booking and patient workflow management
- Designed secure multi-step workflows for appointment approval, invoicing, and feedback using APEX Workflow APIs.

Certifications

1. Oracle APEX Cloud Developer Professional (1Z0-771) – [Oracle](#)
2. MongoDB Developer Course – [Udemy](#)
3. Java Full Stack Developer – [Simplilearn](#)

Languages

- French (A1)
- Spanish (A1)
- English (Fluent)