Prem Palanisamy

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Professional Summary

Backend-focused Software Engineer with 3.5+ years at Oracle, building distributed systems using Spring Boot, Kafka, Redis, and Docker. Expert in microservices architecture, API design, and system performance tuning. Currently pursuing MS in CS with focus on cloud-native development and system design. Actively solving DSA problems and building scalable backend systems.

Technical Skills

- **Languages:** Java, Javascript
- **Frameworks:** Spring Boot, JUnit, Mockito
- **Databases:** Oracle, PostgreSQL, MongoDB, Neo4j
- **Messaging/Caching:** Kafka, Redis
- **Tools:** Docker, GitHub Actions, CI/CD, ELK Stack, Spring Cloud, Swagger
- **Architecture:** Microservices, REST APIs, Resilience4j, API Gateway

Education

MSc in Computer Science (Software Engineering), Maynooth University, Ireland   Sep 2024 – Aug 2025 (Expected)
Relevant Courses: System Design, Advanced OOP, Software Testing
Grade: 1.1

B.Tech in Computer Science, SRM University, Chennai, India   Aug 2016 – May 2020
GPA: 8.6 / 10

Experience

Oracle – Analyst   Dec 2020 – May 2024
Bangalore, India

- Improved shipping efficiency by 80% by implementing parallelized transactions in the order processing system.
- Optimized PL/SQL batch jobs (30min → 3min) with SQL tuning and indexing.
- Developed integrations processing 100k+ records/day using Oracle Fusion and REST APIs; led schema design and handled end-to-end delivery across 3 internal services.
- Identified and fixed recurring order failure bug, eliminating 100% of related production tickets.
- Led VBCS UI revamp with zero prior experience, enabling client renewal and new contract scope.
- Conducted root-cause analysis, reducing incident turnaround time by 90%.

Infosys – System Engineer Intern   Jan 2020 – Mar 2020
Mysore, India

- Built a MEAN stack flight booking app with secure REST APIs and JWT auth.
- Developed responsive UI and admin dashboard with end-to-end booking flow.

Projects

Scalable Microservices Application – LinkedIn-style   GitHub

- Designed microservices for a LinkedIn-style app, handling feed generation, notification systems, and user profiles.
- Applied event-driven design with Kafka to decouple services and ensure eventual consistency.
- Reduced API latency by 6x through intelligent Redis caching of profile and feed data; implemented fallback logic to improve service resilience during peak load.
- Implemented role-based JWT authentication with JUnit + Mockito integration tests.
- Used Resilience4j for circuit breaking, retries, and rate limiting.
- Configured Spring Cloud Config; added tracing with Zipkin, logging via ELK Stack.

Takeaway Food Ordering System – LittleIndia   GitHub

- Team project using Node.js (Express), React, MongoDB; handled backend and DB schemas.
- Integrated Cloudinary image uploads, resolved CORS issues, and deployed on Heroku.
- Used Trello kanban to manage 79+ tasks with Agile story breakdowns.

Awards & Achievements

- **Oracle Quarterly Award** (2022, 2023) – Recognized twice for reducing 90% production issues, automating business processes, and improving system performance.
- Hackathon Finalist – Texus 2019 (3rd place out of 30+ teams) for AI Chatbot project.
- Solved 300+ DSA problems – InterviewBit, LeetCode.

Leadership & Initiatives

Mentor – Advanced OOP Competition
Built a production-style app with React, Springboot, Kafka, Mailer service, SOLID principles, and mentored peers.
Event Organizer – SRM Go-Green Walkathon
Led a team of 15+ volunteers and coordinated a 500+ participant awareness event.