N Rakesh Raj

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Professional Summary

Aspiring Backend Developer with hands-on experience building Java and Spring Boot applications through academic and personal projects. Strong foundation in REST APIs, database design, and writing clean, maintainable code, with a focus on performance, reliability, and understanding the full software development lifecycle.

Education

Vellore Institute of Technology — 2022–2026
B.Tech. in Computer Science and Engineering

Sri Vidhya International Residential School — 2022
HSC (12th Grade)

Technical Skills

Programming:	Java (Core, Collections, Concurrency)
Backend Frameworks:	Spring Boot, Spring Security, Spring Data JPA
Databases:	MySQL, PostgreSQL
Architecture:	REST APIs, Microservices
Cloud:	AWS
Tools:	Docker, Kubernetes, Git, GitHub, Postman
Core Concepts:	OOP, Data Structures & Algorithms, Linux (Basics)

Projects

Digital Wallet / Payment Backend — 2025
- Built a backend service for high-volume wallet operations including add money, transfers, merchant payments, and transaction history.
- Ensured low-latency, reliable balance updates using optimistic locking, idempotent APIs, and safe transaction handling.
- Used Kafka for background processing, improving system performance and availability.
- Containerized and released components with Docker.

Authentication & Authorization Server (IAM) — 2025
- Developed a secure identity service using Spring Security and JWT.
- Implemented registration, login, access/refresh tokens, and token revocation through Redis.
- Added RBAC, ensuring compliance with security requirements and clean, testable implementations.

Pharmacy Management Application (Backend) — 2026
- Built backend modules for medicines, suppliers, orders, billing, and stock workflows with a focus on efficient data access.
- Added batch-wise stock tracking, expiry alerts, and safe stock updates using optimistic locking.
- Designed structured REST APIs with validation, pagination, and predictable error responses.
- Packaged the service using Docker.

Certifications

Java SE 17 Developer – Oracle
Java Foundations – Oracle
Cloud Computing – IIT Kharagpur