

ARYAN RAJ

Java Backend Developer

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SUMMARY

Java Backend Developer building REST APIs and transaction-safe backend systems with Java, Spring Boot, Spring Security, Spring Data JPA, PostgreSQL, and JWT. Strong in Core Java, OOP, Collections, multithreading, concurrency control, SQL, and backend testing with JUnit and Mockito. Hands-on experience with Docker, AWS, GitHub Actions, and CI/CD through backend projects and deployments.

EXPERIENCE

Java Development Intern (Remote) — Coding Raja Technologies

May 15 – Jun 15, 2024

- Built CRUD-based modules (including a library management system and a school management system) with optimized database connections and structured application flow, using Scene Builder for UI design.
- Collaborated in an Agile/Scrum environment with a 5-member remote team; participated in sprint planning, code reviews, pull requests, and debugging via Git workflow.

PROJECTS

Double Ledger — Banking System

Live at: ledgerlypay.vercel.app

Java • Spring Boot • Spring Security • PostgreSQL • React • Docker • GitHub Actions (CI/CD) • Maven

- Built a banking backend with Java 21 and Spring Boot 3.5, exposing 125+ REST endpoints across accounts, transactions, UPI payments, authentication, and audit logging.
- Implemented a double-entry ledger using append-only DEBIT/CREDIT records; secured concurrent fund transfers with pessimistic row-level locking and deterministic account ordering to prevent race conditions and deadlocks.
- Implemented JWT-based authentication with access/refresh tokens, refresh-token rotation, BCrypt password hashing, RBAC, and automated audit logging across protected endpoints.
- Set up a CI/CD pipeline with GitHub Actions for automated build, test, and deployment; containerized the app with Docker.
- Wrote service-layer unit tests and API validation checks using JUnit, Mockito, Postman, and Swagger/OpenAPI.

Syncora — Real-Time Team Collaboration Platform

Java • Spring Boot • React • PostgreSQL • Ably Realtime • AWS

- Designed a real-time team collaboration platform using Spring Boot, React, PostgreSQL, and Ably Realtime, supporting chat, messaging, audio/video calls, and collaborative whiteboard events.
- Implemented layered Spring MVC architecture with REST APIs, DTO mapping, centralized exception handling, Spring Data JPA/Hibernate persistence, structured logging, and OAuth2/JWT-based authentication; deployed on AWS.

WorkZen — HR Management System (HRMS)

Java • Spring Boot • Spring Security • Spring Data JPA • Hibernate • PostgreSQL • JWT

- Finalist at IIT Gandhinagar × Odoo Hackathon 2025; owned backend development for employee, attendance, payroll, and leave-management modules.
- Designed 13 JPA entities and implemented JWT/RBAC authentication for Admin, HR Manager, Employee, and Payroll Officer roles.
- Built a configurable salary engine covering Basic, HRA, allowances, PF, TDS, and Indian income-tax slabs with automated payslip generation and leave-balance workflows.

TECHNICAL SKILLS

Languages & Fundamentals: Java 21, OOP, Collections, Exception Handling, Multithreading, DSA, SQL

Backend: Spring Boot, Spring Security, Spring Data JPA, Hibernate, REST API Design, JWT, OAuth2, RBAC

Databases: PostgreSQL, MySQL, MongoDB, Redis

Testing & Tools: JUnit, Mockito, Maven, Gradle, Git, Postman, Swagger/OpenAPI

Cloud & DevOps: Docker, AWS (EC2, S3, IAM), GitHub Actions, CI/CD, Linux

Additional: React, WebSockets, Kafka, SSE, Webhooks, Microservices, Design Patterns, SOLID

EDUCATION

B.Tech in Artificial Intelligence & Machine Learning — Jai Narain College of Technology

July 2026

First Division with Honours | CGPA: 7.71/10

Relevant Coursework: Data Structures and Algorithms, Database Management Systems, Object-Oriented Design, Operating Systems, Computer Networks, AI, Machine Learning.

CERTIFICATIONS

- Spring Boot Framework & Spring MVC Architecture — Infosys Springboard
- Core Java, React.js, SQL & NoSQL, AWS — PrepInsta