

Aarya Nair

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Profile Summary

Backend Engineer with 2 years of experience designing and developing scalable, reliable backend systems in Java (Spring Boot, Microservices). Experienced with distributed system design, RESTful APIs, and database optimization (MySQL, Postgres). Skilled in writing testable, maintainable code and building observable, production-ready services. Quick learner with a keen interest in Rust and fintech infrastructure, with transferable skills for building high-quality, cross-border payment systems.

Professional Experience

Software Engineer

Thinkpalm Technologies

Kakkanad, Cochin

Aug 2023 – Aug 2025

- Designed, developed, and maintained backend services in Java (Spring Boot) across multiple internal and client projects.
- Implemented distributed system patterns including service orchestration, fault tolerance, and read/write separation.
- Standardized code practices and enforced design consistency across teams to improve maintainability.
- Contributed to CI/CD pipelines and containerized deployments using Docker and AWS.

Projects

CM2 - Cargo Management and Monitoring (MOLCT)

- Built and optimized RESTful microservices in Java (Spring Boot) to handle vessel voyage tracking, cargo scheduling, and reporting.
- Enhanced performance of database queries (MySQL) and implemented caching using Redis to improve system responsiveness.
- Applied test-driven development (JUnit, Mockito) to ensure code reliability, maintainability, and early defect detection across services.

Online Bookstore Web Application

- Developed a microservice-based bookstore using Spring Boot with a React front-end.
- Implemented JWT authentication with Spring Security for secure session management.
- Used HikariCP and Ehcache for optimized database connections and reduced query latency.

AI Document Search Application

- Created a Spring Boot app for semantic search across TXT and PDF files.
- Implemented embeddings with Spring AI + Ollama and used Postgres pgvector for similarity search.
- Containerized the setup using Docker for reproducible deployments.

Education

Rajagiri School of Engineering and Technology, Kakkanad

B.Tech in Computer Science

July 2019 – July 2023

- GPA: 7.94