Aarya Nair

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Profile Summary

Full Stack Developer with 2+ years of experience building scalable microservices, event-driven systems, and cloud-native applications. Skilled in Java, Spring Boot, Kafka, and RESTful API design following SOLID principles and design patterns (Singleton, Factory, MVC). Hands-on with containerization (Docker), AWS deployment, and message queues (Kafka, RabbitMQ). Experienced in integrating responsive React.js and React Native interfaces with secure, high-performance backends.

Key Skills

Languages	Java, Python, SQL	**Frameworks**	Spring Boot, React.js, React Native
Databases	MySQL, PostgreSQL, Redis	**Design Patterns**	Singleton, Factory, MVC
DevOps / **Cloud**	Docker, AWS, CI/CD, Git	**Testing** / **Methodology**	JUnit, Mockito, Jest, TDD, Agile

Professional Experience

Software Engineer *Cochin, India*
ThinkPalm Technologies *Aug 2023 – Aug 2025*

○ Designed and developed distributed Java microservices using Spring Boot, adhering to SOLID and clean architecture principles.
○ Implemented Kafka-based message queues for asynchronous communication between services, improving system scalability and reliability.
○ Optimized database interactions in MySQL and PostgreSQL, reducing query latency and improving performance by 30%.
○ Containerized services with Docker and deployed to AWS EC2 using automated CI/CD pipelines.
○ Collaborated cross-functionally in Agile sprints with QA, frontend, and DevOps teams.

Developer Intern *Cochin, India*
Rajagiri School of Engineering and Technology – Booktopia Project *Jan 2023 – Jul 2023*

○ Modernized the JSP-based Booktopia web application to a React frontend integrated with Spring Boot microservices.
○ Applied Factory and Singleton design patterns for service instantiation and configuration management.
○ Built REST APIs for book catalog, authentication, and order management modules.
○ Optimized MySQL queries and introduced caching mechanisms for faster page loads.
○ Followed Agile and TDD practices, ensuring maintainable, testable code.

Projects

CM2 – Cargo Management and Monitoring (MOLCT)

○ Developed backend microservices using Spring Boot for voyage tracking, cargo scheduling, and vessel analytics in a fast-paced maritime project.
○ Integrated third-party maritime data services ensuring synchronization, data reliability, and consistency across distributed systems.
○ Applied SOLID design principles and modular architecture for scalability and easy maintenance.
○ Deployed containerized microservices to AWS using Docker and CI/CD pipelines.

Vigyan – Mobile Learning Platform

○ Built React Native mobile app integrated with Spring Boot backend for course management.
○ Implemented JWT authentication, course enrollment, and cross-app sharing (WhatsApp, Teams).

Education

Rajagiri School of Engineering and Technology, Kakkanad *July 2019 – July 2023*
B.Tech in Computer Science
First Class, GPA: 7.94