

Aravind Kumar

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Summary

Java Full Stack Developer (3+ years) with a passion for DevOps and Kubernetes. Leveraging CKAD certification and CKA preparation to contribute to resilient Kubernetes clusters, microservice backend systems, and observability workflows.

Education

Purdue University, West Lafayette, IN, USA

Jun 2023 – May 2025

Master of Science in Computer Science

Anna University, Chennai, TN, India

Jun 2017 – May 2021

Bachelor of Engineering in Computer Science

Experience

Founding Engineer | Part-time | Zentrais, USA

Oct 2025 – Present

- Spearheaded the development of the company's initial digital presence, engineering the MVP web application from scratch.
- Automated GitLab/Vercel CI/CD pipelines integrating code quality checks, achieving sub-2-minute production deployments.
- Architected secure data ingestion for 1,000+ users with client-side validations, capturing metrics vital for venture funding.

Tech Stack: Next.js, Node.js, MongoDB, Tailwind CSS, Cursor, CodeRabbit, Resend, GitLab, Vercel.

Java Full Stack Developer | Co-op | MetLife, USA

Jan 2025 – Sept 2025

- Engineered an event-driven architecture using RabbitMQ to decouple the monolith from synchronous external credit score APIs, reducing user wait time by 35% by offloading blocking checks to asynchronous background workers.
- Enhanced fault tolerance by implementing Circuit Breaker patterns with exponential backoff retry policies, preventing cascading failures and preserving system stability during external service downtime.
- Modernized PHP customer portal by rebuilding the frontend in React and Tailwind CSS using a mobile-first design pattern, developing reusable Material-UI components with client-side validation to enhance accessibility.
- Actively participated in an Agile team to define project requirements and architecture, taking ownership of the notification microservice from design to deployment, ensuring on-time delivery.

Tech Stack: Spring Boot, Microservices, RabbitMQ, Resilience4j, React, Material-UI, Tailwind CSS, Docker, AWS SDK.

Java Full Stack Developer | Full-time | LTIMindtree | Client: Citi Bank, India

Aug 2021 – May 2023

- Built a React.js dashboard using OrientDB Graph APIs for interactive data lineage visualization, cutting database cluster migration planning from 2 days to 15 minutes by revealing object dependencies.
- Optimized a large-scale data download process by implementing multithreading with Java's Executor Service, improving system efficiency and reducing total runtime by 50%.
- Migrated the validation pipeline causing bottlenecks in customer information processing to Spring Boot, implementing 35+ business rules with Java Streams and JPA, reducing validation time by 30 minutes.

Tech Stack: Java, Spring Boot, React.js, OrientDB, Multithreading, Hibernate/JPA, JUnit, Mockito, SonarQube.

Certifications

CKAD: Certified Kubernetes Application Developer | The Linux Foundation | Score: 91%

Oracle Certified Java SE 11 Developer | Oracle

Projects

Reactor | Serverless CI/CD Pipeline | React, Node.js, AWS SQS, CodeBuild, Lambda, DynamoDB

- Engineered a resilient deployment pipeline by isolating builds in AWS CodeBuild and implementing an SQS Dead-Letter Queue (DLQ) to automatically handle message failures, ensuring 100% queue uptime.
- Architected an event-driven notification system by linking DynamoDB Streams to AWS Lambda, pushing live status updates to the React client via AWS API Gateway WebSockets.

Technical Skills

Languages: Java, C++, Python, JavaScript/TypeScript, SQL, Bash

Cloud & DevOps: Kubernetes, Docker, Helm, ArgoCD, AWS (Lambda, S3, DynamoDB, SQS, CodeBuild)

Full Stack: Spring Boot, Node.js, Next.js, React, Redux, Flask, Jest, RabbitMQ, Tailwind CSS

Tools: Git/GitHub, MongoDB, MySQL, Postman, Cursor, CodeRabbit