Aravind Kumar

+1-765-543-8361 | aravindkumarjuly41999@gmail.com | linkedin.com/in/aravindkumar3 | github.com/aravind4799 | [Portfolio]

Summary

Java Backend Engineer (3+ years) specializing in Spring Boot, Spring Security, and microservices. CKAD (91%) & Oracle certified with proven experience reducing system processing times from minutes to seconds through architectural optimization.

Relevant Experience

Founding Engineer | Part-time | Zentrais, USA   **Oct 2025 – Present**

○ Built beta signup system capturing 1,000+ user submissions with server-side validation, delivering analytics that directly supported seed funding efforts.
○ Established development infrastructure from scratch configured CI/CD pipelines with GitLab, integrated CodeRabbit for automated code reviews, and containerized applications with Docker.

Java Backend Developer | Co-op | MetLife, USA   **Jan 2025 – Sept 2025**

○ Reduced user wait times by 35% by engineering event-driven architecture with Spring Boot and RabbitMQ, decoupling monolithic services from synchronous external APIs into async background workers.
○ Achieved 99.9% service availability during API outages by implementing Circuit Breaker patterns with Resilience4j, preventing cascading failures across 3+ dependent microservices.
○ Owned notification microservice end-to-end from Spring Boot implementation to Kubernetes deployment on AWS EKS, creating Helm charts for reproducible deployments and configuring pod autoscaling.
○ Modernized PHP customer portal by rebuilding the frontend in React and Tailwind CSS using mobile-first design, developing reusable Material-UI components with client-side validation.

Software Engineer | Intern | CERIAS, Purdue University, USA   **May 2024 – Aug 2024**

○ Reduced page-load latency from 5 sec to 1 sec by optimizing MySQL indexes and consolidating redundant REST endpoints.
○ Redesigned cybersecurity research portal with React and protected routing, achieving 90%+ test coverage with Jest.

Software Engineer | Full-time | LTIMindtree | Client: Citi Bank, India   **Aug 2021 – May 2023**

○ Slashed document validation time from 30+ minutes to under 60 seconds by migrating legacy AbInitio pipeline to Spring Boot, implementing 35+ business rules with Java Streams and JPA.
○ Improved data processing throughput by 50% by implementing multithreading with Java Executor Service.
○ Achieved 80%+ code coverage with JUnit 5 and Mockito, reducing production defects by 30%.
○ Reduced database migration planning from 2 days to 15 minutes by building RESTful APIs with OrientDB and delivering an interactive React dashboard for data lineage visualization.

Certifications

○ CKAD: Certified Kubernetes Application Developer | The Linux Foundation | *Score: 91%*
○ Oracle Certified Java SE 11 Developer | Oracle

Projects

Resiligate | Fault-Tolerant Microservices | Java, Spring Cloud, Resilience4j, Docker | [Source]

○ Built 5+ microservice platform with Spring Cloud Gateway, Eureka, and OpenFeign, securing APIs with Spring Security (JWT + OAuth2) and implementing Circuit Breakers with Resilience4j for zero-downtime fault tolerance.

Reactor | Serverless CI/CD Pipeline | AWS Lambda, SQS, DynamoDB | [Source]

○ Designed end-to-end CI/CD pipeline automating GitHub deployments through AWS CodeBuild, with SQS Dead-Letter Queues for 100% message reliability and DynamoDB Streams triggering real-time notifications via Lambda WebSockets.

Education

Purdue University, West Lafayette, IN – *M.S. Computer Science*   Jun 2023 – May 2025
Anna University, Chennai, India – *B.E. Computer Science*   Jun 2017 – May 2021

Technical Skills

Backend: Java, Spring Boot, Spring Security, Spring Cloud, JPA/Hibernate, Multithreading, REST APIs, RabbitMQ.
Cloud & Data: Kubernetes (CKAD), Docker, Helm, AWS (EKS, Lambda, SQS), PostgreSQL, MySQL, MongoDB, Redis.
Frontend & Testing: React, Next.js, Redux, Tailwind CSS, TypeScript, Jest, JUnit 5, Mockito, SonarQube.