ASHWAN KUMAR REDDY AVULA

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Summary

Full-Stack Java Developer with 3+ years of experience architecting and optimizing scalable, enterprise-grade applications. Expert in Java SE/EE, Spring Boot, Spring Cloud, Hibernate ORM, and front-end technologies (Angular, React, JavaScript/TypeScript, HTML5, CSS3). Proven track record building RESTful APIs, event-driven microservices, and cloud-native solutions on AWS and Azure. Skilled in containerization (Docker, Kubernetes), CI/CD pipelines (Jenkins, GitLab CI), and test-driven development (JUnit, Mockito). Adept at database design and management (MySQL, PostgreSQL, MongoDB, Redis), performance tuning, and applying Agile and DevOps best practices to deliver maintainable, secure code.

Professional Experience

Capital One JAN 2025 – CURRENT
Java Full Stack Developer

- Architected and delivered 10+ end-to-end features using Spring Boot, Hibernate ORM, and React.js/TypeScript, boosting UI render performance by 35% and supporting a cloud-native AWS environment handling 1M+ monthly active users.
- Designed and integrated microservices with Spring Cloud and RESTful APIs consumed by Angular 12 dashboards, reducing data-fetch latency from 1.5s to under 700 ms and enhancing real-time analytics visibility.
- Automated CI/CD pipelines with Jenkins and GitLab CI, containerizing full-stack modules in Docker and orchestrating deployments on Kubernetes, cutting release cycle time by 60% and slashing build failures by 30%.
- Accelerated test-driven development by implementing JUnit, Mockito, and Cypress for front-end/end-to-end testing, elevating overall code coverage from 60% to 92% and decreasing production defects by 45%.
- Collaborated in Agile Scrum ceremonies with UX/UI designers, product owners, and DevOps to ship three major releases that increased user engagement by 20% and conversion rates by 15%.
- Authored comprehensive Swagger/OpenAPI contracts and maintained a React component library in Storybook, reducing developer onboarding time by 50% and cutting support tickets by 30%.

United Health Group MAR 2023 – DEC 2024
Java Full Stack Developer

- Spearheaded cloud-native microservices on AWS Lambda with Spring Boot and Spring Cloud Gateway, achieving 99.95% SLA compliance and 40% latency reduction for 2M+ daily transactions.
- Engineered API-first RESTful services using Spring MVC, OAuth2, OpenID Connect, AWS API Gateway, and Spring Security, accelerating third-party integrations by 60%.
- Implemented Docker, Kubernetes (EKS), Helm, and Terraform IaC for blue-green deployments, shrinking release windows from 4 hours to 15 minutes.
- Built a high-throughput Kafka pipeline with Spring Cloud Stream, processing 150K+ events/sec at sub-100 ms latency and instrumented end-to-end observability via Prometheus and Grafana.
- Led DDD and CQRS-driven refactoring of a monolith into microservices, slashing code complexity by 30% and boosting feature rollout speed by 25%.
- Instituted DevSecOps with SonarQube, OWASP Dependency-Check, JUnit 5, and Mockito in CI/CD, elevating test coverage to 90% and cutting critical vulnerabilities by 70%.

Boost fincrop Group NOV 2020 – DEC 2021
Java Developer

- Engineered reactive REST APIs with Spring WebFlux and Project Reactor on AWS Fargate, boosting endpoint throughput by 45% and cutting average latency by 35%.
- Consolidated 12 legacy services into a unified GraphQL schema using Netflix DGS, reducing front-end data requests by 50% and shrinking payload sizes by 40%.
- Implemented real-time event processing with Apache Kafka Streams and Apache Cassandra, ingesting 100K+ messages/min at sub-250ms end-to-end latency.
- Deployed GitOps workflows with ArgoCD and Terraform on GCP Kubernetes, accelerating environment provisioning by 80% and slashing configuration drift by 65%.
- Integrated OpenTelemetry with ELK for centralized logging and Prometheus for metrics, decreasing mean time to detect incidents by 50%.
- Automated secrets management via HashiCorp Vault and Spring Cloud Vault, enforcing dynamic secret rotation and achieving PCI-DSS compliance 3 months ahead of audit.

Certifications

- Hacker Rank Java Certification
- Hacker Rank SQL Certification
- AWS Academy cloud foundations

Technical Skills

Programming languages: Java, C, C++, Python, SQL, JavaScript, TypeScript, Kotlin
Frameworks & libraries: Spring (Core, Boot, MVC, Cloud, Security), Hibernate, JPA, Spring WebFlux, Micronaut, Quarkus
Front-end technologies: HTML5, CSS3, JavaScript, Angular, React, RESTful APIs, GraphQL
Databases: MySQL, Oracle, PostgreSQL, MongoDB, Redis, DynamoDB, Cassandra
Version control: Git, GitHub, GitLab, Bitbucket
Build & CI/CD tools: Maven, Gradle, Jenkins, GitLab CI/CD, GitHub Actions
Containerization & orchestration: Docker, Kubernetes, Helm
Cloud platforms: AWS (EC2, Lambda, RDS), Azure, Google Cloud Platform
Testing & QA: JUnit 5, Mockito, Selenium, Cucumber
Monitoring & observability: Prometheus, Grafana, ELK Stack (Elasticsearch, Logstash, Kibana)
Operating systems: Windows, UNIX, Linux (Ubuntu, Red Hat), macOS

Academic Project

Enterprise Cloud-Native Microservices Platform
Tech Stack: Java 11 · Spring Boot, OAuth2 , JWT, Hibernate, MySQL, Docker, Kubernetes (EKS), AWS, Jenkins, GitLab CI

- Architected and deployed a Spring Boot-based microservices ecosystem on AWS EKS with Docker and Kubernetes, handling 300K+ daily transactions at 99.9% uptime and reducing API latency by 45%.
- Implemented OAuth2-driven SSO using Spring Security, JWT, and Keycloak for a B2B portal, processing 500K+ logins/month, cutting security incidents by 75% and achieving PCI-DSS compliance.
- Automated end-to-end CI/CD pipelines with Jenkins, GitLab CI, Maven, and SonarQube, accelerating release cadence from bi-weekly to twice-weekly and improving code quality metrics by 35%.
- Designed a hybrid data layer using JPA/Hibernate, MySQL, MongoDB, and Redis caching, migrating 1.2M+ legacy records with zero downtime, boosting query throughput by 60% and lowering storage costs by 30%.

Education

Lewis University **JAN 2022 – MAY 2023**
Master of Science, Computer Science **GPA:** 3.79/4.0