Arun Kumar N
Software Engineer
arunkumarngrj@gmail.com — *+91-7708967396* — *LinkedIn* - *GitHub*

Professional Summary

Results-driven Senior Software Engineer with **around 7 years** of experience building scalable, **cloud-native backend systems using Java, Spring Boot, and AWS.** Proven expertise in designing microservices architectures, leading agile teams, and delivering high-performance enterprise applications. Excels in designing and implementing innovative solutions, ensuring optimal system performance and user satisfaction.

Possesses strong analytical, organizational, and leadership skills with a commitment to excellence in software development. Demonstrates excellent communication and collaboration abilities, facilitating seamless cooperation within cross-functional teams. Enthusiastic about continuous learning and staying abreast of emerging technologies to drive business success.

Work Experience

Cognizant Technology Solutions, Coimbatore, Tamil Nadu, India *Sep 2021 - Present*
Associate

– Led a team of 5 developers for Pharmacy Benefit Management Project, successfully transitioning from Legacy Program to web application.
– Played a key role in all phases of Agile, including requirement analysis, architectural design, development, testing, code review, deployment, and ongoing support for web-based applications and services.

TATA Consultancy Services (TCS) , Kochi, Kerala, India *Jun 2018 - Sep 2021*
System Engineer

– Consistently achieved the highest band for three years and promoted to TCS Digital Candidate in 2021 after clearing an organization-wide high talent assessment.
– Actively participated in Scrum calls and development meetings, contributing to system modifications and improvements.
– Developed efficient, defect-free code in Java 8 and SpringBoot for a MultiNational Money Transfer project.
– Ensured designs were in compliance with specifications and client requirements.
– Collaborated in a team-based Agile environment, achieving project objectives successfully.

Projects

CarelonRx *Duration: 3.7 Years (Current Project)*
Technical Lead & Developer, Team Size: 6, Model: Agile

– Played a key role in the design, development, and deployment of microservices using Java 11 & Java 17 and Spring Boot, contributing to a highly scalable and resilient backend architecture.
– Developed and integrated RESTful APIs for inter-service communication, ensuring seamless data exchange and functionality.
– Utilized Oracle and MongoDB databases to persist and retrieve application data using Spring Data JPA, and building dynamic queries with QueryDSL.
– Implemented EHCache to improve application performance by caching frequently accessed data, reducing database load and improving response times.

- Designed and implemented asynchronous communication patterns using Kafka to decouple services and ensure message delivery even during temporary outages.
- Enabled stateless backend authentication by transforming Okta OIDC tokens into custom JWTs for secured API access.
- Developed and maintained scheduled batch jobs using Spring Boot's built-in scheduler for critical background tasks like data cleanup and report generation.
- Automated deployment processes with Maven, Bamboo, JFrog Artifactory, and Quay container registry.
- Leveraged Elastic Kubernetes features like HPA for automatic scaling and internal service discovery for seamless microservice communication.
- Integrated AWS services such as S3 for file storage, SES/SNS for email and notification delivery, and Lambda functions (Python) to process event-driven business logic triggered by S3 uploads.
- Ensured robust monitoring using Datadog, centralized logging with Splunk, and distributed tracing with Spring Cloud Sleuth.
- Ensured code quality and security through SonarQube analysis and Checkmarx scans.
- Conducted heap dump analysis using VisualVM and Eclipse MAT, reducing object memory footprint by eliminating unnecessary object initializations and resolving OutOfMemory errors.
- Participated in feature story breakdown and story grooming sessions with business analysts and product owners to clarify requirements and define technical tasks.
- Conducted pull request (PR) reviews to ensure code quality, design consistency, and adherence to development standards.

WESTERN UNION   *Duration: 3 Years 3 Months*
Java Development & Reverse Engineering, Team Size: 10, Model: Waterfall

- Analyzed legacy applications written in TAL (Transaction Application Language) and authored detailed Functional Specification Documents (FSDs) to support modernization efforts.
- Maintained and enhanced a smart distributor component that dynamically routed requests to legacy systems or cloud-based services based on request conditions.
- Collaborated with business analysts to translate FSDs into user stories and implemented them using Java and Spring Boot.
- Contributed to a large-scale migration project from HP NonStop systems to AWS, developing cloud-native microservices.

Education

Bannari Amman Institute of Technology, Sathyamangalam, Tamil Nadu, India   *2014 - 2018*
Bachelor of Engineering - Mechanical,   *CGPA: 7.82/10*

Skills & Competencies

Languages & Frameworks: Java, Spring Boot, Quarkus, Python (Lambda functions), Hibernate, Spring Data JPA, QueryDSL, Oracle PL SQL, Drools, TAL (proprietary language used in HP NonStop Systems) | **Cloud & DevOps**: AWS (S3, SES, SNS, Lambda, EKS), Kubernetes (HPA, service discovery), Docker, Maven, JFrog Artifactory, Quay Container Registry, Bamboo | **Databases & Caching**: Oracle, MongoDB, EHCache | **Messaging & Integration**: Kafka, REST APIs | **Authentication & Security**: Spring Security, JWT | **Monitoring & Logging**: Datadog, Splunk, Spring Cloud Sleuth | **Testing & CI/CD**: Git, JUnit, Mockito, Bamboo, SonarQube, Checkmarx | **Other Tools:** Postman, Swagger, Visual VM, Eclipse MAT | **Competencies :** Quick Learner, Individual Contributor, Collaborative Software Development, Problem Solving, Debugging, Code Review, Team Management, Technical Leadership

Languages

English, Tamil, Malayalam.