

ARUN KUMAR SAH

Bangalore, India

📞 +91-6204052243

✉️ arunsah98078@gmail.com

🌐 linkedin.com/arunsah

🐙 github.com/arunsah

Summary

Software Engineer with 1+ year of experience building scalable, production-grade backend platforms using **Java**, **Spring Boot**, and distributed systems (**Kafka**, **Redis**, **MongoDB**). Skilled in **Docker**, **Kubernetes**, **Linux**, **CI/CD**, and **REST API** design, with hands-on AWS cloud experience and cross-functional, global engineering collaboration.

Skills

Languages: Java, JavaScript, C/C++

Backend: Spring Boot, Hibernate, Spring Data JPA, REST APIs, Microservices, Redis, Kafka

Cloud & Infrastructure: AWS (Fundamentals Certified), Docker, Kubernetes, Linux, CI/CD

Databases: MongoDB, MySQL, PostgreSQL

Tools & Platforms: Git, GitHub, GitLab, Docker, Maven, Jira, Postman, Swagger/OpenAPI

Testing: JUnit, Newman

Core Concepts: Object-Oriented Programming, Collections, Multithreading, Exception Handling

Work Experience

Toshiba Software India Private Limited

June 2025 – Present

Associate Software Engineer

Bangalore, Karnataka

- Designed and developed scalable backend services using Java, Spring Boot, and microservices, delivering **7 production ready business requirements**.
- Optimized **MongoDB** data models through hierarchical entity relationships, reducing **storage requirements by 23%** while improving **query performance by 35%**.
- Developed **4 REST APIs** and core business logic for configurable enterprise workflows, while using **GitHub Copilot** to accelerate code reviews and generate **JUnit** test cases, improving development velocity and test coverage.
- Strengthened application security and compliance posture by resolving **20+ vulnerabilities** through **Maven** dependency upgrades, ensuring secure, audit-ready production releases across **Linux**-based deployment environments.

Toshiba Software India Private Limited

March 2025 – May 2025

Software Engineer Intern

Bangalore, Karnataka

- Enhanced backend functionality of existing Leave Management System by implementing multi-level leave approvals, configurable leave types, and notification workflows using **Spring Boot** and **5 REST APIs**.
- Built a **React.js** analytics dashboard displaying **3 HR metrics**, providing real-time insights into leave trends, utilization, and approval status.
- Improved application reliability by developing **JUnit** test suites for all backend enhancements, validating business logic and API behavior.

Projects

EventCart – Distributed Inventory Engine | *Java, Spring Boot, Vue.js, Redis, Kafka, PostgreSQL, Docker* [GitHub](#)

- Prevented **inventory overselling** by building a distributed reservation engine using **Spring Boot**, **Redis**, and **Kafka**, with a responsive **Vue.js** interface for inventory and reservation management.
- Improved data consistency by implementing the **Transactional Outbox Pattern** and automated reservation expiry, ensuring reliable event publication during asynchronous order processing.
- Accelerated developer onboarding by containerizing the complete application stack with **Docker Compose**, enabling one-command deployment of PostgreSQL, Redis, Kafka, and application services.

ServicePulse – Microservice Health Monitor | *Java, Spring Boot, React.js, Kafka, Redis, WebSocket*

[GitHub](#)

- Reduced service outage detection time by monitoring **8 distributed microservices** using heartbeat validation and **Kafka**-driven event processing, with a real-time **React.js** dashboard for infrastructure visibility & monitoring.
- Delivered sub-second failure alerts using **WebSocket (STOMP)** streaming with **Redis**-cached service state, supporting a **horizontally scalable registry** for **25+ concurrent service instances**.
- Improved release reliability and system observability by implementing a **CI/CD pipeline (GitHub Actions, Docker)** alongside heartbeat-based incident detection, reducing manual release effort and mean-time-to-detect for service outage.

Certifications

- AWS Fundamentals Specialization** – Amazon Web Services (AWS)
- Java Microservices with Spring Boot** – Edureka

Education

Amrita School of Computing, Chennai

October 2021 – May 2025

Bachelor of Technology in Computer Science and Engineering

CGPA: 8.57