# Akhila Nallala

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## Profile Summary

- Software Engineer with 3+ years of experience in designing and building **scalable microservices**, **distributed systems**, and **cloud-native architectures** using Java, Spring Boot, and AWS.

- Skilled in **workflow automation**, **event-driven design**, **observability**, **SLO-driven alerting**, and **performance optimization** across high-traffic, production environments.

- Strong focus on **system reliability**, **fault tolerance**, and **end-to-end ownership**, with a passion for building services that are fast, resilient, and easy to operate.

- Adept at collaborating across engineering, product, and operations to deliver solutions that improve **latency**, **throughput**, and overall **developer efficiency**.

## Education

**Bachelor of Technology — Electronics & Communication Engineering**                                      **CGPA: 7.04**
CMR Technical Campus, Hyderabad

## Skills Summary

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|---|---|
| **Languages:** | Java (Primary), Python, JavaScript, SQL |
| **Backend:** | Spring Boot, Spring Cloud, Microservices, REST APIs, Hibernate |
| **Cloud:** | AWS (Lambda, SQS, EC2, S3, DynamoDB, CloudWatch), Azure (Basic) |
| **Containers:** | Docker, Kubernetes |
| **DevOps:** | GitHub Actions, Jenkins, Linux, Git, CI/CD Pipelines |
| **Databases:** | PostgreSQL, MySQL, DynamoDB |
| **Core Areas:** | Distributed Systems, Observability, System Design, Scalability, High Availability |
| **Resilience:** | Retry, Circuit Breaker, Rate Limiting, Fallback Logic |
| **Soft Skills:** | Ownership, Problem Solving, Leadership, Communication |

## Experience

**Tata Consultancy Services (TCS), Hyderabad**                                                Oct 2022 – Present
*Software Developer*

- Developed and optimized **cloud-native microservices** using Java & Spring Boot, improving service availability and reducing p99 latency by **22%**.

- Engineered **distributed workflows** using AWS Lambda, SQS, EC2, and DynamoDB enabling **30% faster parallel data processing** across high-traffic modules.

- Implemented full-stack **observability pipelines**—CloudWatch logs, metrics, dashboards, and traces—reducing MTTR by **35%**.

- Increased system reliability using **resilience patterns** (retry, fallback, circuit breaker), decreasing failure incidents by **28%**.

- Automated deployment workflows using **GitHub Actions & Jenkins**, reducing deployment time by **50%** and ensuring consistent releases.

- Improved backend performance through **SQL optimization, Redis caching, and async execution**, achieving **40% faster API responses**.

## Projects

**Cloud-Native Observability Platform**                                      *AWS, Spring Boot, SQS, OpenSearch*

- Built real-time **observability system** ingesting logs & metrics for 15+ microservices.

- Created SQS + Lambda ingestion pipelines reducing processing time by **40%**.

- Implemented **SLO-driven alerts**, improving anomaly detection accuracy by **30%**.

**High-Scale Async Data Processing System**                                      *Spring Boot, Redis, DynamoDB, Docker*

- Architected async + batching engine improving throughput by **45%** for compute-heavy workloads.

- Added rate limiting and circuit breaking, reducing overload failures by **32%**.

- Containerized microservices and automated CI/CD pipelines, achieving **near-zero deployment failures**.

## Honors and Awards

- AWS Cloud Practitioner Certified
- Java (HackerRank Certified)
- Spring Boot & Microservices — Udemy
- Performance Award for improving latency & reliability in distributed systems