

# Koteswarudu Akula

Backend Software Engineer — Java Spring Boot Specialist

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## PROFESSIONAL SUMMARY

Backend Software Engineer with 2+ years of experience specializing in **Java Spring Boot** microservices and high-performance system architecture. Proven track record of delivering **30x performance improvements** and building scalable notification systems. Strong background in **CI/CD Devtron deployment pipelines**, production troubleshooting, and cross-platform SDK development. Recognized with **Lemnisk Spot Award Q1 2024** for outstanding technical contributions and system architecture leadership.

## TECHNICAL SKILLS

**Backend:** Java, Spring Boot, Node.js, Python

**Architecture:** Microservices, REST APIs, Event-driven systems

**Data & Messaging:** MySQL, Aerospike (NoSQL), Apache Kafka

**Cloud & DevOps:** AWS (EC2, Lambda), Docker, Kubernetes (Devtron)

**Security & Monitoring:** RSA/AES Encryption, Prometheus, Grafana, Monit

## EXPERIENCE

### Software Development Engineer

Jul 2023 – Present

*Lemnisk, Bangalore*

*Onsite*

- Architected high-performance **Java Spring Boot** push notification service achieving **30x performance gain** (5K → 150K events/min) over legacy Node.js system on identical hardware
- Implemented backend for **hybrid encryption system (RSA/AES)** with device-specific keys and **certificate pinning** for **SDK's**
- Built silent push notification system processing **230K events/minute** for device token refresh and notification reliability
- Tested and Deployed many applications on **Kubernetes using Devtron** with monitoring via Prometheus and Grafana
- Resolved critical production issues including SDK compatibility Issues, Encoding problems, Kafka rebalancing issues and more
- Designed intelligent notification reliability system with background workers for Android and BGAppRefreshTasks for iOS

### Software Development Engineer Intern

Jan 2023 – Jul 2023

*Lemnisk, Bangalore*

*Onsite*

- First intern in company history** to join on-call rotation, developing deep debugging skills and expertise in production troubleshooting, CDP/MA flows, and complex client integrations
- Migrated Android SDK from legacy background services to **WorkManager**, enhancing reliability and background task scheduling
- Built experimental pull notification system that evolved into comprehensive notification reliability solution
- Optimized AWS infrastructure by consolidating load balancers with intelligent routing, reducing costs
- Improved production VM monitoring by deploying **Monit and Node Exporters** for enhanced system visibility and alerting
- Developed cross-platform SDK features bridging Android native code to React Native

### Frontend Development Intern

Summer 2022

*Gojek, Bangalore*

*Remote*

- Developed reusable **React.js components** with TypeScript for Apsara design system
- Optimized UI components using **Radix library**, improving performance and developer experience
- Ensured backward compatibility while implementing component improvements across data engineering applications

## EDUCATION

### Bachelor of Engineering in Computer Science

2023

*BITS Pilani, Hyderabad Campus*

*CGPA: 8.23/10.0*

- Relevant Coursework:* Operating Systems, Database Systems, OOP with Java, Data Structures & Algorithms

## KEY ACHIEVEMENTS

**Lemnisk Spot Award Q1 2024:** Outstanding technical contribution and leadership in system architecture

**Performance Excellence:** 30x improvement (5K → 150K events/min) through Java Spring Boot architectural redesign

**System Architecture:** Built scalable push notification service from scratch serving millions of users

**Security Implementation:** Implemented encryption systems for financial services clients

**Innovation:** Pioneered pull notification architecture and silent push systems adopted company-wide

For more details about my experience, please visit my **Portfolio**.