

Koteswarudu Akula

Backend Software Engineer

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PROFESSIONAL SUMMARY

Backend Software Engineer with 2+ years of experience designing and optimizing high-performance **Java Spring Boot** microservices. Proven ability to deliver **30x throughput improvements** and architect scalable, event-driven notification platforms serving millions of users. Strong background in **CI/CD pipelines (Devtron)**, cloud-native deployments, production troubleshooting, and cross-platform SDK development. Recipient of the **Lemnisk Spot Award (Q1 2024)** for exceptional technical contributions and leadership in system architecture.

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
- Fixed critical production issues including SDK compatibility Issues, Encoding issues, 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 tasks
- 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
- 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**.