

Arun Sakthi Anand M

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SUMMARY

Backend-heavy full-stack engineer building high-throughput, event-driven systems in Java and Spring Boot, with hands-on experience modernizing legacy platforms, designing cloud-native architectures, and owning production systems at scale.

EDUCATION

2019 - 2023 B.Tech in Electrical Engineering at **IIT Hyderabad** (GPA: 8/10)

WORK EXPERIENCE

Lead Engineer (Full-Stack), Air India June 2024 - Present

- Modernized a mission-critical Spring Boot platform by upgrading from **Java 8 to 21** and **Spring Boot 2 to 3**, improving p99 latency by **40%** and reducing garbage collection pauses by **95%** in production
- Redesigned Air India's notification platform into a **decoupled, event-driven architecture** using Azure Service Bus with priority topics and DLQs, increasing throughput from **30 to 75 TPS** while improving fault isolation
- Built a push notification service using asynchronous pipelines with FCM and APNs, replacing external vendors and achieving **60% infra cost savings** while maintaining high reliability and scalability
- Re-architected the backend and datastore of the Preference Management System by replacing Couchbase with MongoDB and Redis, **reducing infrastructure costs from 1.6L to 85K**, and built an Angular interface enabling users to update preferences through a streamlined UI
- Developed a **Notification Dashboard** using Angular, with secure RBAC and reducing campaign launch cycles from hours to minutes by eliminating direct database operations and enabling self-service workflows

Software Development Engineer Trainee, Air India June 2023 - May 2024

- Received **High Flyer Award** for contributions in migrating core backend services during the **Air India-Vistara integration**, scaling systems to multi-terabyte datasets and ensuring consistency, zero-downtime rollouts, and reliability across distributed microservices
- Executed the upgrade of large-scale frontend applications from **Angular 13 to 18**, improving build stability, performance, and long-term maintainability across multiple teams
- Developed a serverless Web Performance Monitoring platform using Node.js (v16+), TypeScript, Azure Functions, PostgreSQL, and Playwright automation to track Core Web Vitals and deliver real-time performance analytics and competitive benchmarking for Air India's digital transformation

PROJECTS

Interview Organizer Platform [Link to Demo](#)

- Designed and deployed a production-grade cloud architecture on AWS using Elastic Beanstalk, S3, CloudFront, and MongoDB Atlas.
- Implemented secure authentication with JWT (access/refresh), Spring Security, and Angular interceptors and optimized frontend performance using signals, and lazy loading for faster load times.
- Implemented CI/CD with GitHub Actions using parallel jobs, environment-specific pipelines, artifact caching, and automated CloudFront invalidation.

SKILLS

Expert: Java, Spring Boot, Angular, MongoDB, Redis

Proficient: C++, NodeJS, PostgreSQL, Kafka, Linux, AWS, Azure, CI/CD (GitHub Actions)