Ramesh Ashok

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Summary

Accomplished Senior Backend Engineer with 4+ years of expertise architecting scalable, high-performance systems for enterprise airline and B2C platforms. Demonstrated excellence in Java/Spring Boot microservices and Node.js/ GraphQL serverless architectures, consistently delivering measurable performance improvements and exceptional system reliability.

Experience

Senior Software Developer   *Chennai, India*
Tata Consultancy Services   *Jan 2025 – present*
- Architected enterprise-grade Node.js + GraphQL backend on Azure Functions for B2C airline booking platform
- Achieved 35% reduction in cold-start latency and 50% deployment size optimization through strategic Apollo Server migration
- Improved API response times by 25% implementing intelligent multi-level caching with optimized TTL strategies
- Eliminated N+1 query bottlenecks, reducing database calls by 60% using advanced GraphQL Dataloaders
- Enhanced system resilience with circuit breakers and intelligent request timeouts, preventing cascading failures
- Implemented comprehensive observability with OpenTelemetry and Azure Application Insights for production excellence
- Delivered mission-critical APIs supporting high-traffic search, pricing, and booking workflows

Software Engineer   *Chennai, India*
Tata Consultancy Services   *Jan 2022 – Dec 2024*
- Engineered microservices-based backend systems for the NDC platform for British Airways(IAG) using Spring Boot and PostgreSQL
- Leveraged AWS services (EC2, S3) for deployment, achieving 99.9% system uptime and 25% faster performance
- Enhanced database performance by optimizing queries and designing efficient schemas in PostgreSQL, reducing data latency by 15%
- Integrated RESTful APIs with third-party platforms like Amadeus GDS for seamless service functionality
- Implemented unit and integration testing, ensuring code reliability and maintainability

Backend Developer   *Chennai, India*
Bloomlync Technology   *Aug 2021 – Jan 2022*
- Modernized legacy systems with Spring Boot and AWS Lambda, reducing system errors by 20%
- Designed high-performance RESTful APIs with PostgreSQL integration for superior data retrieval
- Maintained 100% delivery timeline adherence across all client projects with exceptional quality standards

Software Engineering Intern   *Bengaluru, India*
Oracle Cerner   *Oct 2020 – June 2021*
- Developed comprehensive full-stack Blog Module for RCCREDIT.com using Spring Boot, React, and MongoDB
- Optimized database operations and API integrations for enhanced system reliability and performance
- Delivered detailed technical documentation following industry-standard Agile development practices

IoT Intern   *Chennai, India*
Amtex Systems   *May 2017 – July 2017*
- Worked on IoT automation project for American School, Chennai, improving communication efficiency by 30%
- Used JavaScript and integrated data visualizations for real-time announcement systems

Education

SRM Institute of Science And Technology   *Chennai, India*
M.Tech in Artificial Intelligence and Data Science   *2026 – present*
- Currently pursuing advanced studies in AI and Data Science
- Specializing in machine learning algorithms and data analytics
- Research focus on deep learning and neural networks

SRM Institute of Science And Technology   *Chennai, India*
MCA in Computer Applications   *2018 – June 2021*
- Completed intensive Machine Learning Bootcamp at NIT Trichy
- Gained hands-on expertise with TensorFlow and Keras frameworks
- Developed data analysis and visualization skills
- Strong foundation in software engineering principles

Projects

Jazeera Airways B2C Platform   *2025*
- Built ultra-high-performance Node.js + GraphQL backend on Azure Functions with breakthrough optimization achievements
- Tech Stack: Node.js, GraphQL, Azure Functions, Apollo Server, PostgreSQL

British Airways NDC Platform   *2024*
- Engineered enterprise-scale microservices architecture for massive airline booking data processing
- Tech Stack: Java, Spring Boot, PostgreSQL, AWS, Microservices Architecture

TechUtsav Registration System   *2021*
- Developed scalable registration platform for SRM College Tech Symposium with custom domain deployment
- Tech Stack: Angular, Firebase Cloudstore, JavaScript, GoDaddy

Technologies

Programming Languages: Java, JavaScript, TypeScript, Python

Backend Frameworks: Spring Boot, Hibernate, Node.js, Express.js

APIs & Integration: GraphQL, Apollo Server, REST APIs, Microservices Architecture

Databases: PostgreSQL, MongoDB, Oracle DB

Cloud & DevOps: AWS (EC2, S3, Lambda), Azure Functions, Docker, Jenkins, GitHub Actions

Tools & Practices: Git, Agile, TDD, CI/CD, OpenTelemetry, Application Insights

Certifications

Spring Boot Certification – Udemy

AWS Solutions Architect Associate (In Progress)

PostgreSQL Database Fundamentals – Coursera

Advanced Java Programming – NIIT

Python Development – NIIT