Java & Backend Engineer with 4+ years of experience delivering scalable, high-performance systems across airline and B2C domains. Strong background in Java/Spring Boot microservices with hands-on experience in Node.js and GraphQL for serverless architectures on Azure Functions. Proven expertise in backend performance optimization, cloud-native design, caching strategies, and resilient system architecture.

Ramesh Ashok

Java & Backend Engineer

Contact

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WWW
Bold Profile

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WWW
github.com/rameshashok

Websites, Portfolios, Profiles

- linkedin.com/in/ramesh-ashok/
- github.com/rameshashok

Skills

Work history

2025-01 - Current

Software Developer

Tata Consultancy Services, Chennai

- Project: Jazeera Airways – B2C Platform
- Built and optimized a Node.js + GraphQL backend on Azure Functions for a B2C airline booking platform.
- Reduced cold-start latency by ~35% and deployment size by ~50% via Apollo Server → GraphQL Yoga migration, bundling, and DI removal.
- Improved API response times by ~25% using request-level and instance-level caching with optimized TTLs.
- Eliminated N+1 query issues, reducing redundant database calls by ~60% using GraphQL Dataloaders.
- Implemented circuit breakers and request timeouts, improving system resilience and preventing cascading failures.
- Integrated OpenTelemetry (OTel) for distributed tracing and metrics, paired with Azure Application Insights for end-to-end monitoring, latency analysis, and production debugging.
- Delivered and optimized high-traffic, business-critical APIs supporting search, pricing, and booking flows.
- Project: British Airways – NDC Platform
- Engineered microservices-based backend systems for the NDC platform for British Airways(IAG) using Spring Boot and PostgreSQL, ensuring efficient handling of large-scale airline booking data.
- 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.

2021-08 - 2022-01

Backend Developer

Bloomlync Technology, Chennai

- Modernized backend systems with Spring Boot and AWS Lambda, achieving a 20% reduction in system errors.
- Designed and implemented RESTful APIs integrated with PostgreSQL, improving data retrieval performance.
- Contributed to client projects, meeting 100% of delivery timelines and quality standards.

2020-10 - 2021-06

Software Intern

Oracle Cerner, Bengaluru

- Designed and developed a Blog Module for RCCREDIT.com using Spring Boot, React JS, and MongoDB, delivering a seamless user experience.
- Integrated APIs with database operations to optimize query performance and system reliability.
- Delivered detailed documentation and supported project milestones adhering to Agile practices.

2017-05 - 2017-07

IoT Intern

Amtex Systems, Chennai

- Worked on an IoT automation project for the American School, Chennai, improving communication efficiency by 30%.
- Used JavaScript and integrated data visualizations for real-time announcement systems.

Certifications

Spring Boot – Udemy

AWS Solutions Architect – Associate (Self-study completion, exam scheduled)

PostgreSQL Database Fundamentals – Coursera

Core/Advanced Java – NIIT

Python – NIIT

Education

2021-06

Master of Computer Applications

SRM Institute of Science And Technology - Chennai

- Attended a Machine Learning Bootcamp at NIT, Trichy, gaining hands-on experience with TensorFlow and Keras.
- GPA: 73.4%

Project Highlights

Participant Registration Application – TechUtsav 2020, Developed a registration system for SRM College Tech Symposium using Angular and Firebase Cloudstore., Deployed the system on Firebase with a custom GoDaddy domain.