NASEEFU RAHMAN KARUMANNIL

Hajiyarpalli, Malappuram, Kerala 676519

📞 7994529046 ✉ naseefrahman90@gmail.com in linkedin/naseefu-rahman-karumannil
github.com/naseefu 👤 portfolio/naseefu

Technical Skills

Backend: Java, Spring Boot, Spring MVC, JPA/Hibernate

Databases: MySQL, PostgreSQL, MongoDB

Microservices Cloud-Native: Spring Eureka, LoadBalancer, Spring Cloud Gateway, Resilience4j

Messaging & Streaming: Kafka, ActiveMQ, IBM MQ

Security: JWT, Keycloak

DevOps & Tools: Docker, Git, Maven

Experience

Tata Consultancy Services   **Jan 2025 – Present**
Product Engineer / Java Spring Boot Developer   *Kochi, Kerala*

- Contributed to the development of a scalable Alerts and Notification platform supporting asynchronous, event-driven processing.
- Implemented alert ingestion and processing workflows using Apache Kafka and ActiveMQ, including delayed message handling.
- Developed a fail-safe alert registration mechanism to persist notification payloads during service downtime and replay them after recovery.
- Built asynchronous notification pipelines to improve throughput and system responsiveness, handling 20K+ notifications per day.
- Identified performance bottlenecks caused by JPA persistence context growth and excessive DB calls; implemented EntityManager flush/clear with configurable thresholds (200–300 entities).
- Optimized data access using batch inserts and query refactoring, achieving 60% DB call reduction and 50–70% latency improvement.
- Integrated multiple notification channels including Email, SMS, REST, File-based delivery, JMS, and Push Notifications.
- Implemented PII masking, encryption/decryption for secure payload storage, and JWT-based authentication for REST APIs.
- Built resilience and recovery utilities including fail-safe registration, bulk resend processing, and supporting tools (SMTP/SMS simulators, XML-Excel conversion utilities), improving system reliability and fault tolerance.

Projects

FitSync - AI-Powered Fitness Tracker | *Java, Spring Boot, React, MySQL, Cohere Ai, Cloudinary*   **November 2024**
- AI-powered fitness tracker using Spring Boot, React, MySQL, and Cohere AI with personalized recommendations and progress tracking.

Zervings - AI Recipe Generator | *Java, Spring Boot, React, MySQL, Cohere Ai*   **November 2024**
- Built an AI-powered recipe generation platform, enabling personalized recipes based on ingredients and dietary preferences.

AI-Powered Story Builder Platform | *Java, Spring Boot, React, PostgreSQL, Cohere Ai*   **October 2024**
- Developed an AI-driven story generation platform with dynamic plot and content creation

Education

NSS College of Engineering   **Dec 2020 – May 2024**
Bachelor of Technology in Computer Science And Engineering   *Palakkad, Kerala*

Awards Recognition

Star Performer Award | *Tata Consultancy Services (2025)*

Team Excellence / On-the-Spot Award | *Tata Consultancy Services (2025)*

tcsAI Idea Igniter | *Tata Consultancy Services (2025)*