

ANISH GOPAL PEMMARAJU

Backend Software Engineer · Java 17 | Spring Boot | Microservices | Apache Kafka | PostgreSQL | Redis | AWS

Bengaluru, India | +91-8249525652 | anishgopal.20@gmail.com

LinkedIn: linkedin.com/in/anish-gopal | LeetCode: coldfire_anish19

Professional Summary

Backend engineer owning **Java 17 / Spring Boot microservices on AWS** for a production healthcare platform (**3M+ MAU, 350+ hospital networks**). **AWS Certified Developer - Associate**, focused on **performance engineering, event-driven integration** with Kafka, and **asynchronous processing at scale**; on-call for production services. Led the team for a quarter on a conversational-AI vendor integration.

Experience

GlobalLogic – Hitachi Group

Mar 2024 – Present

Software Engineer – Bengaluru, India

Tech Stack: [Java 17, Spring Boot, Microservices, PostgreSQL, Hibernate, Spring Data JPA, Apache Kafka, Redis, AWS, Docker, Datadog]

- Develop and own **Java 17 / Spring Boot** microservices (check-in, scheduling, documents) for a **Patient E-Check-In** platform (**3M+ MAU, 350+ hospitals**) that cut front-desk processing time by **40%**.
- Cut **P95 latency from 30s to under 2s** on critical booking APIs and raised capacity from **~100 to 10,000 req/s** in **JMeter** load tests. Traced bottlenecks with **Datadog APM**; fixed **Spring Data JPA / Hibernate N+1 queries** and missing composite indexes (**EXPLAIN ANALYZE**); parallelized blocking vendor/DB calls with **CompletableFuture** on bounded executors; right-sized **HikariCP** pools; and added **Redis caching** (**~85% hit rate, ~65% fewer DB reads**).
- Designed **Kafka event workflows across 5 microservices**, replacing synchronous calls; used **key-based partitioning, idempotent consumers** and **retry + dead-letter topics** so downstream failures no longer cascaded into check-in failures.
- Led end-to-end development of a document-generation service producing **70,000 compliance documents/day** (Apache Velocity, **AWS S3**); redesigned rendering as an **asynchronous worker pipeline**, eliminating HTTP timeouts and duplicate renders and cutting turnaround from **~200 hours to under 1 hour**.
- Built vendor integration proxies as an **anti-corruption layer** with **async slot-availability sync**; led the team for a quarter integrating **Replicant's conversational-AI voice agent, estimating capacity and justifying headcount** to client stakeholders, and mentoring new engineers.

Technical Skills

Languages: Java 17, SQL, PL/pgSQL

Backend: Spring Boot, Spring MVC, Spring Data JPA, Hibernate, REST APIs, Microservices, OpenFeign

Databases & Storage: PostgreSQL (indexing, query optimization), Redis (distributed caching), DynamoDB, Elasticsearch, AWS S3, Flyway, Hibernate ORM

Messaging & Streaming: Apache Kafka (producers, consumers, consumer groups), AWS SQS / SNS, Pub/Sub, Event-Driven Architecture

System Design: HLD, LLD, Distributed Systems, Domain-Driven Design, Asynchronous Processing, Scalability, High Availability, Fault Tolerance, Caching, Performance Tuning

Concurrency & CS: Data Structures & Algorithms, OOP, SOLID Principles, Design Patterns, CompletableFuture, ExecutorService, Multithreading, Thread Pools

Cloud, DevOps & CI/CD: AWS (EC2, RDS, S3, DynamoDB, Lambda, API Gateway, IAM, CloudWatch), CloudFormation, Docker, Jenkins, Maven, Git, CI/CD

Observability, Testing & Security: Datadog APM, ELK Stack (Elasticsearch, Logstash, Kibana), JUnit 5, Mockito, SonarQube, Spring Security, OAuth2, JWT, Integration Testing, Production On-Call, Root-Cause Analysis

Additional Backend: Apache Velocity

Certifications

AWS Certified Developer – Associate – Amazon Web Services

 Credential Badge

Achievements & Publication

- **Promoted twice within 16 months:** Trainee Software Engineer → Associate Software Engineer → Software Engineer.
- **Spot Award** for critical API performance optimization; **Vanguard Award** for consistent production delivery.
- **4-star CodeChef** (~1800) · **Top 100 of 28,300** in a national CodeChef contest · **350+** LeetCode problems solved.
- **IEEE publication** (2022): Heart Disease Prediction using Machine Learning.

Education

Odisha University of Technology and Research
B.Tech in Computer Science & Engineering

2019 – 2023
CGPA: 9.01