Sayan Maity

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Skills

Primary Skills - Java 8/11, Spring Boot

Tools - MySQL, Kafka, JUnit, Mockito, Docker, Git,

Cloud Skill - GCP, AWS

Concept - SDLC, Design Pattern, RestAPI, Microservices, Event Driven Architecture

Work Experience

Custom Software Engineering Analyst   *Dec 2021 - Present*
Accenture | India

- Implemented a high-performance middleware service using Spring Boot and Java, enabling seamless transmission of diverse data between upstream and downstream systems, ensuring data integrity and consistent communication across services.

- Designed & developed RESTful APIs tailored to varied business use-cases, enabling faster integration and reducing onboarding time for new clients and applications.

- Integrated robust data validation & business rule enforcement layer to proactively filter and transform upstream data, resulting in 30% reduction in downstream errors and improved data quality for consumers.

- Developed Kafka producer integration, dynamically publishing categorized payloads to multiple Kafka topics, enhancing system decoupling and ensuring scalable event-driven architecture.

- Built auto-retry mechanism for critical third-party API calls using Spring-Retry, reducing manual reprocessing effort and improving API success rate from ~70%

- Implemented tokenization for PHI (Personal Health Information) fields and persisted transaction logs in MongoDB, ensuring compliance with HIPAA/data security standards and traceability of transactions.

- Leveraged Caffeine in-memory cache for API access tokens, reducing unnecessary authentication token calls by 60% and improving API throughput.

- Developed AWS Lambda functions (daily triggered) to generate DB extracts in JSON format and store them securely on Amazon S3 for the audit team.

- Built a multithreaded batch processing engine using ExecutorService and Thread Pooling, consuming 5000 records per iteration across 495 chained iterations, writing each iteration's response to CSV files, optimized to reduce overall execution time by 60% and minimized system resource utilization.

- Automated multi-step API workflow using CompletableFuture, orchestrating sequential calls (3 APIs) and transforming/mapping responses dynamically to construct and post downstream requests accelerated update cycles and reduced manual intervention.

- Set up failure-triggered email notifications, helping stakeholders quickly identify and resolve issues, ensuring business continuity and SLAs adherence.

- Followed Test-Driven Development (TDD) approach with JUnit & Mockito, achieving >85% code coverage, and validating functionality, error handling, and edge cases.

Professional Summary

- Passionate Java Backend Developer with 3.5+ Years of Experience in Spring Boot, Kafka, AWS, Specialized in Building Scalable RestAPIs, Event-Driven Architecture & Microservices on Health & Backing domain.
- Having capability of co-operation and communication with teams and clients.

Certifications & Awards

- *AWS Certified Associate Developer*
- *GCP Certified Cloud Associate Engineer*
- "Client Value Creation" Awards by Accenture
- "Barclays Be Brilliant" Awards by Accenture

Others Self Projects

Inventory Management System App   **View**

Role - Developer

- Implemented features like inserting and maintaining stock of products and customer details, tracking credit and debit details for individual customers and billing with pdf generating mechanism in simple application.
- Build UI using Angular and tailwind-CSS to make a single page app and to give material design interactive easy look.
- Implement storing data with Google Firebase.

COVID19 Tracker (Mobile Native and Web) App   **View**

Role - Developer

- Implemented cross platforming mobile application using Google Flutter with consuming authorized (India Govt) covid api where It will show updates based on different states.

Education

BTech in Computer Science and Engineering (CSE)
Mar 2017 – May 2021
Brainware Group of Institutions (MAKAUT)
CGPA – 8.6