Bokeun Jeong

infomuscle10@gmail.com

github.com/infomuscle ¦¦ bokeunjeong.com ¦¦ linkedin.com/in/bokeunjeong

Career

SSG.COM

Backend Developer ¦ Mar.2019 – Present

Advertisements ¦ Oct.2024 – Present
- Rebuilding advertisement cash system.

Affiliates ¦ Jan.2020 – Sep.2024
- Designed, Developed, Improved Mobile Gift Service with maximum 8.58M monthly traffics.
- Maintained data synchronization for Order, Product of H&M, Samsung, Ferragamo.

Claims ¦ Mar.2019 – Dec.2019
- Developed claim features such as Exchange and Return.

Contributions

Advertisement Cash System Rebuilding

Kotlin ¦ Spring Boot ¦ Redis ¦ Kafka

- Set goal to build new system with Kotlin, NoSQL and EDA from Java, MySQL and Batch.
- Inspecting existing process and designing new architecture.
- Expecting to reduce large amount of technical debt.

Improvement for Mobile Gift Order API Latency

Java ¦ Spring Boot ¦ Kafka

- Changed callback method from synchronous API to Kafka.
- Reduced number of callbacks from N+1 depending on order quantity to 2.
- Guaranteed order of callbacks for same coupon by assigning partitions with order id.
- Improved average API latency from **1.56s to 446ms.**

Telegram Monitoring Alarm Messaging Architecture

Java ¦ Kotlin ¦ Spring Boot ¦ Kafka

- Developed new feature consuming telegram alarm event from Kafka.
- Designed Kafka message format to have only chat ID and contents.
- Integrated sending alarm methods in existing **4** different projects to produce Kafka message.
- Reduced time for developing monitoring alarm in **2** more new projects.

Automation of Settlement Data Mapping for Affiliated Sellers

Java ¦ Spring Boot ¦ PostgreSQL ¦ JPA

- Developed data mapping feature extracting PK from uploaded excel files.
- Avoided performance issues of Apache POI by changing format to csv from xlsx.
- Removed many procedures from creating query to approval of data export.
- Reduced process time to **maximum 60 seconds.**
- Enabled up to **105M rows**, which is maximum for xlsx, by multi-thread processing.

Affiliates Admin API Project

Java ¦ Spring Boot ¦ MyBatis ¦ Oracle

- Created new project used only for affiliates admin API.
- Developed base features such as interceptor, exception handler.
- Set pipeline to build each environment connected to separate branch.
- Gave legacy admin role of front to call new admin and migrated all functions.
- Reduced build time of QA to **1-2 minutes from 8-10 minutes.**

Mobile Gift Data Validation System

Java ¦ Spring Boot ¦ Spring Batch ¦ JPA ¦ MyBatis ¦ PostgreSQL ¦ Oracle ¦ Kafka

- Designed data pipeline updating coupon status and comparing to order database.
- Defined validation targets to unused coupon in 6 months (average 100k to 150k a day).
- Prevented overcalls by calculating the number of validation targets for every batch.
- Enabled monitoring up to **144k** of coupon status.
- Improved service stability by detecting hidden edge cases of synchronization failure.

Mobile Gift Abuser Block System
Java ¦ Spring Boot ¦ JPA ¦ PostgreSQL

- Developed feature to manage abuser's phone number in encryption.
- Added validation before creating mobile gift order comparing receiver's phone number.
- Improved business process faster by letting customer service office manage abusers.
- Prevented about **40M Won** of possible damage by blocking **1.3k** suspicious orders.

Improvement for Monitoring Indicators for Mobile Gift
Java ¦ Spring Boot ¦ Kafka ¦ Grafana ¦ InfluxDB

- Added indicators such as order amount, order id, product id.
- Measured detailed latency such as by quantity, by sellers, internal and external.
- Established measurement standard of precise internal performance and work evaluation.

Microservice Architecture Migration for Mobile Gift
Java ¦ Spring Boot ¦ JPA ¦ MyBatis ¦ PostgreSQL ¦ Oracle ¦ Kafka ¦ RabbitMQ

- Separated logics from legacy library and database.
- Designed integrated mobile gift order and claim data synchronization system.
- Added features such as cancel, resend, status, extend of coupons.
- Enabled claim of already issued coupons by migrating data from central database.
- Applied appropriate patterns for adding new sellers such as strategy, adapter, factory.
- Responded to average daily traffic increases of **2k -> 20k -> 76k -> 217k** biannually.
- Contributed to company-wide goal of mobile gift sales in 2023 (**5% of total GMV**).

Skills	Java ¦ Spring ¦ PostgreSQL ¦ JPA ¦ Kafka ¦ Kubernetes Kotlin ¦ Oracle ¦ MyBatis ¦ RabbitMQ ¦ Python
Education	Sungkyunkwan University - Economics ¦ Eastern Philosophy and Confucianism - Samsung Full Tuition Scholarship
Certificates	Certified Kubernetes Administrator - The Linux Foundation ¦ Aug.2024 SQL Developer - Korea Data Agency ¦ Dec.2022 Engineer Information Processing - HRD Service of Korea ¦ Nov.2018
Activities	SSG Tech Blog Contributor - Principles and Types of Encryption Algorithms - https://bit.ly/3C8OPAR