Bokeun Jeong

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Career	**SSG.COM**
	Backend Developer ¦ 2019.03 – Present
	  - Developed integration system for order, claim, product data of affiliated sellers.
	  - Designed, Developed, Improved Mobile Gift Service with maximum 85.8M monthly traffics.
	  - Maintained data synchronization for Order, Product of H&M, Samsung, Ferragamo.

Contributions	**Microservice Architecture Migration for Ssgcon**

- Inspected overall logic and drew diagram to plan progressive migration.
- Migrated functionalities such as Issue, Send and Usage of coupons.
- Removed duplicated codes and split down combined functions to multiple components.
- Only switched RabbitMQ Queue and maintained exchange without affecting producers.
- Improved maintenance with **100% of test coverage** for controllers and services.
- Caused **0% of errors** during migration.

Improvement for Mobile Gift Order API Latency

- Changed callback method from 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.**

Automation of Settlement Data Mapping for Affiliated Sellers

- 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.

Mobile Gift Data Validation System

- 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.

Improved Monitoring Indicators for Mobile Gift

- 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

- 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 ¦ 2024.Aug
	- SQL Developer ¦ Korea Data Agency ¦ 2022.Dec
	- Engineer Information Processing ¦ HRD Service of Korea ¦ 2018.Nov

Activity	- Guest Lecturer and Project Coach ¦ Techit by Likelion
	- Online Lecture: Spring Boot with Kotlin for Beginners ¦ Inflearn