Cem Ayan

Software Engineer

Email : cem_ayan@outlook.com

Mobile : +905376413106

cemayan @cemayan

Summary

As a software engineer, I developed microservices and APIs in high-scale and high-traffic projects with **Java** and **Golang** and I continue to improve myself in this field. Although I am particularly interested in distributed systems and microservices, I am also interested in other areas.
I applied patterns such as **CQRS**, **Saga**, **Event Sourcing**, **Transactional Outbox** on microservices. Apart from these, I developed cloud native applications on AWS and GCP and contributed to the development of the architectures there.

Experience

- **Ubercloud**
  Software Developer *June 2023 - Present*
- **ING Netherland**
  Senior Software Engineer *December 2022 - June 2023*
  - Creating Terraform custom provider with **Golang** for use on ING private cloud
  - Automatically creating route, authentication, rate limiting etc. features of APIs over the swagger json file provided on **Kong**.
- **Mynet Games**
  Senior Software Engineer *January 2021 - December 2022*
  - In order to collect game events , game analytics pipeline has been created on **AWS**. (**Kinesis Firehose, ECS, Fargate(Graviton2), S3, Cloudwatch, ALB, Lambda, ECR, Route53, CodeDeploy**)
  - Events are processed with **Golang** microservices on **EKS**. **gRPC** was used for inter-microservice communication.
  - DWH architecture was created on **Snowflake** and the data came with **Snowflake TASK**s over **S3**.
  - CI/CD pipeline built end-to-end. (Unity Build, Versioning, Upload Store, Slack Notifications)
  - A data warehouse / data visualization project was created with Pulumi using **AWS**, **Snowflake** and **Tableau**. With this project, any game company can automatically create an infrastructure by entering the relevant provider information.
- **NTT DATA Business Solutions Turkey**
  Senior Software Engineer *July 2020 - January 2021*
  - Ranking of customers according to the loyalty program. Written with **Spring Boot**, this application includes APIs from loyalty program such as Score Inquiry, Campaign creation etc.(**Spring Boot, Spring Cloud, Spring Security**)
  - Customers are segmented by RFM scoring and GDPR and KVKK implemented
- **Oredata(Consultant)**
  Software Engineer *December 2018 - July 2020*
  - **MobilePOS** project allows us to use phones as pos(Point of sale) devices.
    The bank simulator written with **Spring Boot** decides which bank to transfer the payment request from the relevant bank and sends this payment request to the relevant bank. (**OpenShift, Jenkins, Liquibase, Hazelcast, Prometheus, Spring Cloud, Spring Boot,...**) (Company: **Interbank Card Center**)
  - As Cloud Native, processing in-game activities according to certain rules and producing scenarios.
    App written in **Golang** which is runnig on GCP EKS sends incoming game events to **GCP Pub/Sub**.
    Afterwards, these events are sent to **Apache Flink** and real-time stream analysis is performed. According to the settings created on the panel, settings such as windowing, aggregation, etc. on **Apache Flink** can be adjusted.(**Golang, Kubernetes Engine, Apache Flink**) (Company: **Ingame Group**)
  - Building a tool that creates and schedules rule-based segments. Event handler written in **Golang** sends relevant events to **Kafka**. In 11.11 days, using **Apache Druid**, they were able to instantly see the products purchased in all categories with a real-time dashboard and RPS can go up to **100K**.
    Apart from that, the **Spring Boot** application, which receives the settings given in the form of JSON, works as a **Quartz** watch schedule and creates segments according to the events on **BigQuery**.
    According to these segments, an email or push campaign is created with the help of a panel. (**Google BigQuery, Spring Boot, Quartz, Kafka, Golang**)(Company: **n11**)

- Recommendation Engine with Apache prediction.io. As in Amazon and Netflix, it can show results related to the product that the user is browsing. **Spring boot** application with **Quartz** periodically takes the feed provided by Defacto.com and updates the products regularly.
  With **Apache Prediction.io**, the products in the site are trained with the model created on **Spark ML**.
  Afterwards, predictions are taken with http request to the created model. (**Kafka, Hbase, Spark Mllib, Hadoop, Spring Boot, Quartz, Golang**)(Company: **Defacto**)

- **Segmentify**
  Software Engineer *April 2017 - November 2018*
  - Push and email campaigns can be created on the Segmentify panel. It takes actions according to this created campaign written with **Spring Boot**. Helped develop SDK with **Kotlin** and **Swift** to get Segmentify working on mobile

- **Alpata Tech**
  Software Engineer *October 2016 - April 2017*
  - A live sales transaction module that will be used for sales by the stock exchanges in the provinces in Turkey has been written. Apart from this, B2B and B2C software for companies has been developed.

Education

- **Osmangazi University**
  Mathematics and Computer *September 2011 – August 2016*