

SUMMARY

Programmer of 6+ years of experience with demonstrated ability to adapt to new technologies to deliver values, ranging from cloud operations to machine learning.

EXPERIENCE

- **Skelter Labs (AI technology company)**

Software Engineer

Seoul, Korea

Jun 2018 - Present

Personalized Product Recommendation Solution

- **Developed the Web SDK** for signal collection and displaying recommendation widgets.
- Configured an **ML pipeline from data processing to serving in production** using Kubernetes, Spark, Argo Workflows, and MLflow.
- Integrated OpenFlagr to the serving stack for **model A/B testing**.
- **Operated the service with minimum downtime** using open-source tools including Prometheus, Grafana Dashboards, PagerDuty, Slack.
- **Configured the business dashboards** by integrating the ELK stack.
- Analyzed the performance bottleneck by integrating Jaeger Tracing and **optimized the response times**.
- **Configured and maintained the dev and production environments on GCP with the IaC approach** using Terraform. I maintained the flexibility of going down into provider APIs for testing and troubleshooting while benefiting from the reproducibility of the IaC approach.
- Continuously monitored the status and utilization of cloud infra and performed **cloud cost optimization**.
- As a person in charge of computer security, I **studied and implemented the current cloud security best practices** to ensure uninterrupted production of the team, ranging in the activities of configuring network firewalls, access policies, data encryption at rest and in transit, backups, secrets management, and container image scanning.
- Implemented **custom log processing pipelines** using Fluent Bit and Vector in order to index container logs and audit logs.

Audience Targeting Service PoC

- **Set up and operate Kubernetes cluster** to run Spark workloads to process ML data, and to serve Tensorflow models.
- **Integrated data from external services**, including Braze, Contentful, and BigQuery.

Context-based Personalization Application

- Participated in developing **stream processing backend** using Apache Kafka Streams API.
- Configured dev and production environments on AWS, and **configured the test/release pipelines to streamline the development**.

- **KOKOMO Games (mobile game company)**

Client-side programmer

Seoul, Korea

Jun 2016 - May 2018

- Developed game contents in Unreal C++ and Blueprint.
- Configured a CI system for automated mobile build (iOS and Android) and QA deployment, which greatly streamlined the build process. Up to 10+ builds a day.
- Integrated third-party libraries for user session and authentication functions for iOS and Android.
- Maintained custom engine modifications and integrated upstream updates using Git.

EDUCATION

- **Korea Advanced Institute of Science and Technology**

B.Sc. in Computer Science

Daejeon, Korea

2006 - 2012

- **Intern in the Collaborative Distributed Systems & Networks Lab:** Developed a prototype Android app that can recognize learned objects through built-in camera, using the OpenCV library.
- **Thesis:** Implemented a Predictive-corrective incompressible SPH for Realistic Fluid Simulation using the OpenCL API, utilizing parallel processing.

PROFESSIONAL SKILLS

- **Experience in backend development** using Python, Go, SQL, Kafka, MongoDB, Docker.
- **Experience in cloud operations:** GCP, AWS, networking, Terraform, Kubernetes, Prometheus, Argo Workflows.
- **Experience in machine learning projects** using Apache Spark, scikit-learn, Tensorflow, Keras.
- **Mid-level Industry Skills:** I can write testable and efficient code, have sufficient computer science knowledge.
- **Language skills:** Native in Korean. I can write and converse in English at a functional level.

CERTIFICATIONS

- TOEIC: score 990 (Listening 495, Reading 495), Speaking Level 6 (score 150) (2019)
- Test of English Proficiency developed by Seoul National University (TEPS): grade 1+, score 969 (2016)
- Engineer Information Processing by the Human Resources Development Service of Korea (2013)