Kyungho Byoun

Software Engineer

Proactive and motivated software engineer with a strong interest in cloud service development.

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github.com/Byunk

SKILLS

Python | Kubernetes | Docker | Istio

LANGUAGES

Korean
Native or Bilingual Proficiency

English
Professional Working Proficiency

EDUCATION

Bachelor of Engineering in Computer Science, Aerospace Engineering
Korea Advanced Institute of Science and Technology (KAIST)

03/2017 - 02/2024

Projects

- Korean hate speech detection
- Winning rate prediction of the chess game result with GNN
- 2023 GDSC KAIST Backend Lead
- KAIST PintOS (A+)

WORK EXPERIENCE

Software Engineer
SAP Labs Korea

07/2023 - Present

Achievements/Tasks

- Conducting a virtual cluster PoC experiment to reduce development and testing costs of microservices on HANA cloud, by introducing an Istio service mesh including both local and remote clusters.
- Conducted research on combinational test scenarios for HANA DB, and developed a tool for practical testing of release candidates, which resulted in the identification and filing of 11 bugs out of 33 reported by the team.
- Constructed a pipeline that automatically runs a combinational tests when new release candidates of HANA DB is released, and designed a dashboard that shows the key metrics collected by tests.

Researcher
KAIST Augmented Reality Research Center

07/2022 - 06/2023

Achievements/Tasks

- Conducted research to analyze cardiorespiratory signals using Fourier Transformation and fundamental statistical techniques for the purpose of estimating sleep stage levels
- Designed and implemented an algorithm intended for integration into a smart mattress. Conducted testing with more than five testers and in collaboration with Kyung Dong Navien Co., using devices that utilize ECG as a benchmark.

CERTIFICATES

Certified Kubernetes Application Developer (CKAD) (01/2024 - 01/2027)

PERSONAL PROJECTS

SQL metadata (09/2023)
- Contributed in open source project, sql-metadata, which extracts metadata of the given query.

Google Solution Challenge (02/2023 - 06/2023)
- Team Lead, developed a real-time scam detection application using BERT and Google Cloud, aimed at protecting socially disadvantaged individuals. Our project was recognized among the Global Top 100.

KAIST APP Startup Competition (07/2022 - 12/2022)
- Proposed solutions and business strategies to address the supply and demand imbalance in the carbon credit market.
- Led a team of five junior software engineers in the KAIST App Startup Competition, resulting in a win worth $5,500.