Sungho Hwang

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EXPERIENCE

Bucketplace / *Software Engineer* • South Korea   *April. 2022 - Present*
- Responsible for a range of server development tasks aimed at expanding 'Today's House,' the leading interior content and commerce platform in Korea, to a global audience. Played a pivotal role in taking 'Today's House' from its initial development stage to successful launches in the United States, Japan, and Indonesia collaborating as part of a cross-functional team.
- Designed and developed 5+ company-wide microservices with an event-driven architecture accounting for factors such as country, language, time zone, and currency, aimed at replacing the existing monolithic server in Korea.
- Developed back-office admin tools, batch applications, and automation scripts to optimize service operations and conserve human resources. Actively communicated and collaborated closely with 8+ other teams.

Hanwha Life & Krust Universe / *Software Engineer* • South Korea   *May. 2021 - April. 2022*
- Developed batch application with Spring Framework and Kotlin to distribute rewards for cryptocurrency assets staked by users on Klaytn blockchain network. Devised an efficient compensation distribution flow based on Merkle Proof and smart contract.
- Set up batch management infrastructure based on Apache Airflow and K8s with a batch task monitoring system that sent notifications through Slack.

NAVER Corp. / AI Server Production team / *Software Engineer* • South Korea   *Jun. 2020 - May. 2021*
- Expanded the function of chatbot serving engine to provide natural answers for CLOVA AiCall(conversational AI service for inquiry response over the phone) by developing an API aggregator server in Python that asynchronously called various external APIs to collect and process store-related data. Deployed and operated the server in a K8s cluster, and built a log analysis environment with ELK stack.
- Improved operability through migrating multiple servers previously running on VMs to K8s cluster.
- Developed messaging webhook API of the chatbot serving engine with Scala using distributed lock to handle race conditions that could occur when calling a third-party messaging API.

Samsung Electronics / Samsung Research / *Software Engineer* • South Korea   *Jan. 2019 – Apr. 2020*
- Developed a web-based image clipping tool using Javascript which was utilized to annotate 20k+ image data used in ML research.
- Elaborated an image clipping algorithm for labeling image data more accurately and efficiently.
- Developed AR telepresence client application based on Unity, Android, and gRPC for streaming images and audio generated and sent in real-time.

OPEN SOURCE CONTRIBUTIONS

Debezium - Change Data Capture tool based on Kafka Connect maintained by Red Hat   *Oct. 2021 – Nov. 2021*
- Developed MongoDB Outbox Event Router(Kafka Connect Transforms) to support easy implementation of transactional outbox pattern, which is essential for event-driven microservice architecture, with MongoDB.
- Wrote unit tests, integration tests, usage examples, and official documentation as well(https://github.com/debezium/debezium/pull/2877).

EDUCATION

Korea Aerospace University / *B.E. in Software and Computer Engineering* • South Korea   *Mar. 2012 – Feb. 2019*
- GPA: (Major) 4.29/4.50

HONORS AND AWARDS

5th Prize at Korea Collegiate Programming Contest by Ministry of Science and ICT, 2017

17th Place out of 86 teams at ACM-ICPC Asia-Daejeon Onsite Regional Contest, 2017

21st Place out of 90 teams at ACM-ICPC Asia-Seoul Onsite Regional Contest, 2018

SKILLS

Programming Languages: Kotlin, Java, Python, JavaScript, C/C++

Tools: Spring Boot, MySQL, Redis, Kubernetes, Docker, gRPC, Kafka, JPA, Jenkins, AWS