

WORK EXPERIENCE

Jul 2021
~ present

Hyperconnect, Machine Learning Software Engineer Seoul, Korea

Multi-tenant live-streaming platform recommender system (Jul 2021 ~ Present)

- Developing machine learning based live streaming recommender system applied in Azar Live and Hakuna Live.
- Mainly participating backend part of the project: Implemented ML model-based recommender system (ranking engine), a/b testing component, multi-tenant data management logic, real-time vision feature pipeline, in-house admin, etc.
- Lead the project from Feb 2022 (two other engineers are in the project).
- Have also performed data analysis to improve the machine learning performance.
- <https://prev.github.io/posts/event-driven-recsys/>

Machine learning system for community health (Apr 2022 ~ May 2022)

- Maintained backend part of the community moderation system that quickly detects user who violate community health guidelines in Azar Live.

Multi-tenant user search system (Jan 2022 ~ Apr 2022)

- Developed elasticsearch based user search system used in Azar Live and Hakuna Live.
- Implemented backend part and designed the system with event-driven architecture.
- Also have taken charge of communication with other teams/depts.

Jul 2020
~ Sep 2020

NAVER Corp, Software Engineer Intern Seongnam, Korea

- (1) Designed and developed a deep learning model management service for AI research scientists to increase ML research productivity.
- (2) Developed the in-house ML training codebase (PyTorch-based) and built an automated testing environment specialized for the ML code. Also participated in the development of various ML pipelines to improve research productivity.
- Review post (Korean): <https://prev.github.io/posts/AI-SWE-Internship/>

Feb 2019
~ Jul 2019

JENNIFERSOFT, Software Engineer Intern Paju, Korea

- Developed a performance monitoring solution for frontend developers.
(<https://front.jennifersoft.com/about>)
- Contributed to the frontend part of the product (real-time dashboard, large-scale table, admin, and theme management system).

Jul 2018
~ Aug 2018

Ratchet Cloud, Software Engineer Intern

Vancouver, Canada

- Designed and developed a game forum system as an open-source project with Express and React along with the test codes (88% coverage on the backend part). (<http://github.com/h8tch-innovations/powerforums>).

Jan 2015
~ Jun 2016

Freelancer Software Engineer

- Developed various websites and web applications.

EDUCATION

Sep 2019
~Aug 2021

M.S. in Computer Science, KAIST

Daejeon, Korea

- GPA: 4.0 / 4.3
- Advisor: Sunghee Choi

Mar 2015
~Aug 2019

B.S. in Computer Science, Hanyang University

Seoul, Korea

- GPA: 3.97 / 4.5

Mar 2012
~Feb 2015

Korea Digital Media High School

Ansan, Korea

SOFTWARE DEVELOPMENT SKILLS

Languages	Python, JavaScript, TypeScript, Scala, Go [†] , Java [†]
Backend	FastAPI, Flask, Express [†] , Apache Flink (streaming)
Web Frontend	React, SASS, Webpack, jQuery
Database	MySQL, Cassandra, Redis, DynamoDB [†] , MongoDB [†]
DevOps	Docker, AWS, Kubernetes [†]
ML/Data	PyTorch [†] , TensorFlow [†] , BigQuery

[†] Little experience

PUBLICATIONS

- [2] **Youngsoo Lee**, Sangdoo Yun, Yeonghun Kim, and Sunghee Choi, “**Progressive Transmission and Inference of Deep Learning Models**”, *20th IEEE International Conference on Machine Learning and Applications (ICMLA)*, 2021
<https://arxiv.org/abs/2110.00916>
- [1] **Youngsoo Lee** and Sunghee Choi, “**A Greedy Load Balancing Algorithm for FaaS Platforms**”, *5th International Conference on Cloud and Big Data Computing*, 2021
<https://dl.acm.org/doi/10.1145/3481646.3481657>

OTHER EXPERIENCE AND ACTIVITIES

Jul 2016
~ Oct 2017

SW Maestro Program

Seoul, Korea

- A program operated by Korean government to promote best software engineers and entrepreneurs.
- Awarded as top 8 teams among 33 teams, presented at the "100+ Conference" hosted by Ministry of Science and ICT, and signed MOU with 3 companies based on the technology.

INDIVIDUAL PROJECTS

Feb 2012
~ Present

Color Scripter

<https://colorscripter.com>

- Online code syntax highlighting service that helps developers upload their code to their blogs or websites with high readability.
- 10~20k visitors per month, 500+ plugins made by users, 150+ donators supporting this service.
- Implemented with Python, JavaScript, and MySQL along with the test codes (72% coverage on the backend part).

Last update: Jun 3, 2022