

PROFILE

- Master's student at KAIST studying Computer Networking and seeking opportunities in **Software Engineering**
- Great **problem-solving** and **communication skills** in Korean/English and eagerness to learn and apply new technologies
- **Languages** – Python(Django, Flask, PyTorch, TensorFlow, PyTest, OpenCV), C, C++, Java(Spring), Android(Kotlin), Javascript(Angular, D3), HTML, CSS(Less.js), PHP, C#(Unity) / **OS** – Linux(Debian, Ubuntu), Mac OS, Windows
- **Cloud-Based Technologies** – AWS/GCP, Docker / **Collaboration Tools** – Git, Notion, Trello, Confluence

EDUCATION

Korea Advanced Institution of Science and Technology (KAIST)

Master of Science in Computer Science; GPA: 3.93/4.3

Daejeon, Korea

Feb 2019 – Feb 2021 (expected)

- Specialization: Computer Networking; Advisor - Sue Moon (sbmoon@kaist.edu)

Hanyang University

Bachelor of Science in Computer Science and Engineering; GPA: 4.05/4.5; Summa cum laude

Seoul, Korea

Feb 2015 – Feb 2019

- Contest Chair of 2017 Korea, Sookmyung & Hanyang University Coding Camp
- Committee Member of Hanyang Collegiate Programming Contest in 2015, 2016, and 2018

EXPERIENCE

Hanyang University, Computer Vision Lab

Research Intern | Python (PyTorch, Tensorflow)

Seoul, Korea

Jan 2019 – Nov 2019

- Replicated, applied, and improved the result of the state-of-the-art DL models for depth-map estimation, segmentation, and multi-object tracking with various approaches including transfer learning and encoder-decoder mechanism.

NCSOFT Inc., AI NLP Research Team

Software Engineer | Python, Angular.js

Seongnam, Korea

Dec 2017 – Feb 2018

- Developed multiuser-chatting application (using MQTT) to collect and process user data for NLP models.
- Designed and maintained the overall structure of an AngularJS-based web application (full-stack).
- Visualized the output of the NLP models on web (using D3.js).

Beatpacking Company

Software Engineer | Python (Flask)

Seongnam, Korea

Aug 2015 – Aug 2015

- Developed a Customer & Sales Management System (using Flask and SQLAlchemy).
- Fixed transactional/asynchronous dependencies between unit-tests, and randomness issues (using PyTest).

PROJECTS

Test Generator for GraphQL | Python (Graphene), Javascript, GraphQL

Apr 2020 – Jun 2020

- Wrote a module to generate query strings given a GraphQL Schema Definition Language (SDL) file.
- Developed a parser to enumerate all target functions and a parameters generator for them, using the Python AST module.

Cupeer: An Offline Socializing Service Using Mobile P2P Connectivity | Android (Kotlin)

Jul 2019 – Dec 2019

- Developed a P2P socializing service prototype in MVC design pattern with a decentralized matching algorithm and Google Nearby.
- Conducted an experiment on its wireless connectivity and a user survey on the concept, implementation, and future directions.

Starcraft II Multi-Agent RL Challenge | PyTorch

Jul 2019 – Dec 2019

- Achieved 99.98% winning rate against an embedded AI (difficulty=4) in SC2ENV by adopting a state-of-the-art Centralized Training with Decentralized Execution (CTDE) reinforcement learning model, *SMIX*.

Web of KAIST International Students Association (KISA) | Python (Django)

Mar 2019 – Apr 2020

- Developed a website (<https://kisa.kaist.ac.kr>) and intranet for the KISA with an SSO service from scratch while abiding by privacy regulations, as well as ameliorating the ties between domestic and international students at KAIST.

Text-based Analysis on University Ranking | Python

Apr 2019 – Jun 2019

- Built an ML model to predict the ranking of USNews-top-60-colleges and extracted salient linguistic features using EMPATH, GloVe embedding, and 22K online corpus; yielding a ranking error of 11.16.

HONORS & AWARDS

Best TA Award in KAIST School of Computing

2020

ACM-ICPC Asia Seoul Regional 16th/24th/21st Place

2015/2016/2018

Honorable Mention (Finalist), Samsung Collegiate Programming Contest

2018

National Science Scholarship

2019-2021

Creative Korea Scholarship

2015-2019

NAVER Scholarship

2015-2017

Achievement Award, the Dean of Computer Science and Engineering at Hanyang University

2015