

SKILLS

Languages: Python, C/C++, Typescript, Java, Rust, R

Frameworks: TensorFlow, Pandas, Scikit-Learn, React, NodeJS, Android, Seaborn

Tools: Git, Anaconda, Jupyter Notebook, VS Code

EDUCATION

Seoul National University | Bachelor | Mar 2017 ~

- Major: Computer Science & Engineering (double majored in Statistics) / GPA: 4.12(Major), 3.94(Total)/4.3

Korea Science Academy of KAIST | High School | Mar 2014 ~ Feb 2017

- A specialized high school for gifted students in science / Graduated with **top honor** in Computer Science

EXPERIENCE

Software Engineering Intern | Google | Jun 2022 ~ Sep 2022

- Developed Google Search system with A/B test mechanism

Software Development Soldier | Republic of Korea Air Force | Apr 2020 ~ Jan 2022

- Developed **real-time flight assistant** system run on **Android** tablets for old fashioned fighter aircrafts
- Achieved about **10x speedup** through **pipelining** loading map files and postprocessing them
- Led the team through dividing given goals and **refactoring legacy codes** to fit to each individual codes

Student Intern | Samsung Electronics | Dec 2018 ~ Feb 2019

- Belonged to a C-Lab(in-house venture) team making **3D video** version of TikTok or Instagram Reels
- Researched about the **recommendation system** used in Netflix

PROJECTS

SNU Undergraduate Research Program | Python, Java | Apr 2018 ~ Nov 2018

- Published a paper, **An Efficient Routing for Shuttle Sharing**, *KCC 2018*
- Optimized the multiple shuttles route with **DP techniques**, designed the programmatic structure of simulation
- 160x faster** than the Genetic Algorithm (used as an upper bound) while achieving **99% performance** of it

Partner Based Fitness SNS | React, NodeJS | Jan 2018 ~ Jun 2019

- Developed and designed a **full-stack** application for sharing fitness diaries and finding fitness peers
- Beta-tested with about 10 testers, published at Play Store & App Store

Untact Roll Call and Phone Return Service for the Military | React, Python | Jun 2020 ~ Nov 2020

- Solved the problem of COVID-19 in the barracks with our own automated roll call system using a smartphone app
- Designed the mechanism of the automated system and developed a **full-stack** application

Metaverse Memorial for the Korean War | Python, R | May 2021 ~ Jul 2021

- Suggested the concept of the metaverse memorial to solve current problems of Seoul National Cemetery
- Refined and **analyzed text data** of the war veterans and the progress of the Korean War

ACHIEVEMENTS

Development

- '21 Public National Defense Data Application Contest, Awarded by the Chief of Military Manpower Admin.
- '20 Open-Source Hackathon for Military Soldiers, Awarded by the Air Force Chief of Staff
- '21 Startup Contest for Air Force Soldiers, Awarded by the Air Force Chief of Staff

Research

- '18 SNU Undergraduate Research Program, 1st place, Awarded by the President of Seoul National University
- '15 KSA R&E engineering part, 1st place

Data Science

- Naver Data Science Competition 2019 Final
- Advanced Data Analytics Semi-Professional (ADsP)

Algorithm

- '17 ACM-ICPC Daejeon Regional, 29th place
- International Olympiad in Informatics Candidates Camp
- '09 ~ '15 Korea Olympiad in Informatics, ~10th place

Scholarship & Community

- Presidential Science Scholarship
- SNU Tomorrow's Edge Membership (STEM), honor society of College of Engineering, SNU

INTERESTS

- Life-changing software, understanding and assisting humans through data