

Summary.

A passionate Junior Student at KAIST dedicated to gaining a variety of experience in various fields. I have been involved in research since high school and continue to expand my research experience at KAIST. I am currently conducting an individual study (undergraduate research) in KAIST NMAIL(Neuro-Machine Augmented Intelligence Lab), and I am interested in improving human life using biosignals and deep learning models. I also have experience in founding a startup and have worked as a core front-end developer. In addition, I have experience in the field of hacking and cybersecurity.

Education

KAIST(Korea Advanced Institute of Science and Technology)

Daeieon, S.Korea

JUNIOR, SCHOOL OF COMPUTING, DEPARTMENT OF BRAIN AND COGNITIVE SCIENCE (DOUBLE MAJOR)

Feb. 2023 - PRESENT

- GPA: 4.06/4.3, with 70 credits completed
- Relevant Coursework: CS.20300 System Programming (A+), BCS.20002 Systems Neuroscience (A+), MAS.10010 Linear Algebra for Data Science (A+), CS.30706 Machine Learning (A0), CS.20004 Discrete Mathematics (A0), CS.20006 Data Structure (A0), BCS.20001 Biology of Neurons (A0)

Hansung Science High School

Seoul, S.Korea

EARLY GRADUATION Mar 2021 - Feb 2023

Research Experience _____

Individual Study

Daejeon, S.Korea

KAIST, NMAIL (Neuro-Machine Augmented Intelligence Lab)

Sep. 2024 - PRESENT

- · In order to prepare research about application of deep learning model to biosignals, studied methodlogies for processing and analyzing biosignals such as EEG and PPG
- Contributed to project about developing model that predicts blood pressure using only PPG signal
- Developed mobile and smartwatch applications used in the experiment

Development of a Public Key Cryptography based on Cubic Function

Seoul, S.Korea

HANSUNG SCIENCE HIGH SCHOOL

Mar. 2022 - Jul. 2022

- Proposed new type of cryptography system based on cubic function inspired from elliptic curve cryptography
- Best Paper Award, Hansung Science High School, 2022 Spring

Comparison of A* Algorithm Performance in the Road Network in Seoul according to the p-value of the heuristic function defined by Minkowski Distance

Seoul, S.Korea

HANSUNG SCIENCE HIGH SCHOOL

Aug. 2021 - Dec. 2021

- Study about the performance of A* algorithm depending on the heuristic function defined by Minkowski distance
- Best Paper Award, Hansung Science High School, 2021 Fall

Skills

Language: C, C++, Python, Java, Dart, R, JavaScript, Framework: Flutter, Android Studio, Next.js

Extracurricular Activity

CO-FOUNDER, FRONT-END DEVELOPER

DADA Company

Seoul, S.Korea

Jul.2023 - Mar.2024

- · Co-founded a startup with colleagues
- Developed a table ordering application
- Worked as core front-end(Flutter) developer
- · Although the product was not successful, the experience was priceless

Hosted a handicraft exhibition and various club events

Gombal (KAIST Handicraft Club)

VICE PRESIDENT AT 2024 & CORE MEMBER

- Sep.2023 PRESENT
- Established the club's first official constitution and introduced a collaboration tool for club management

Daejeon, S.Korea

Humanity/Leadership III program < Introduction to Hacking>

• Teach about the basis of hacking to KAIST freshman

GoN (KAIST Cybersecurity Club)

Mar.2023 - PRESENT CORE MEMBER

- Studied about the basis of cryptography, cybersecurity, hacking
- · Participated in club CTF

Samsung Shining Star Hwaseong, S.Korea

PARTICIPANT Jul.2024

- A program about semiconductor held by Samsung Electronics for sophomore students
- Played a key role in a team project about designing a future semiconductor product

Awards & Scholarship_

AWARDS

2022	Best Paper Award (1st Prize), Hansung Science High School	S.Korea
2022	Finalist, Samsung Humantech Paper Award	S.Korea
2021	Best Paper Award (1st Prize), Hansung Science High School	S.Korea
2018	Finalist, Edaily Coding Challenge	S.Korea

SCHOLARSHIP

Hanseong Nobel Gifted Scholarship, Hanseong Son Jae Han Scholarship Foundation 2022

S.Korea

Daejeon, S.Korea Feb.2025 - PRESENT

Daejeon, S.Korea