

Seoyong Lee

✉ sylee2685@gmail.com | 🏠 seoyong-lee-official.github.io

“Everything’s gonna be alright”

Education

Seoul National University

DEPT. OF ELECTRICAL AND COMPUTER ENGINEERING

Pursuing bachelor’s degree, Leave of absence for alternative military service(01/2023-11/2024), Anticipated Graduation: February 2026

Seoul, Korea

03/2020–Current

GPA : 4.26/4.3

Korea Science Academy of KAIST

MAJORED IN PHYSICS

Graduated with distinction in overall GPA, Awarded by the Mayor of Busan

Busan, Korea

03/2017–02/2020

GPA: 4.27/4.3

Research Interests

MATHEMATICAL ALGORITHMS; PARALLEL COMPUTING; DEEP LEARNING;

EXPERIENCE

ACCELERATED INTELLIGENT SYSTEMS LAB (AISys), SNU

UNDERGRADUATE RESEARCH INTERN

Seoul, S.Korea

04/2024–Current

- Joined Professor Jinho Lee’s Lab as an intern, studying graph pattern mining algorithms

AB180

DATA SCIENTIST

Seoul, S.Korea

10/2023–Current

- High-level planning and ideation for diverse projects, including ad attribution algorithms, AppTrackingTransparency (ATT) consent rate optimization, and in-app advertisement (IAA) optimization.
- Developed a Retrieval-Augmented-Generation (RAG) system and further enhanced it into a multi-agent system with expanded functionalities.

AIRS MEDICAL

RESEARCH SCIENTIST

Seoul, S.Korea

01/2023–10/2023

- Implemented SOTA deep-learning architectures to improve image restoration(denoising, super-resolution) performance and to mitigate artifacts produced by deep learning
- Implemented mathematical algorithms for the MRI reconstruction pipeline, including 3D-SENSE from Philips

SELECTED HONORS & AWARDS

2024 SAMSUNG COLLEGIATE PROGRAMMING CUP

2024

- The largest individual competitive programming contest in Korea
- 5th Place Award

NATIONAL SCIENCE TECHNOLOGY SCHOLARSHIP

2022–Current

- Full funding for honorable undergraduates from Korean government
- ~\$10K financial support in total

2021 ICPC ASIA SEOUL REGIONAL

2021

- Annual competitive programming competition among the universities of the world
- 1st round 14th place
- 2nd round 23rd place

SCHOLARSHIP FOR ACADEMIC EXCELLENCE

2017-2020, 2021

- ~\$10K financial support over the period

2018 KOREAN YOUNG PHYSICISTS' TOURNAMENT

2018

- Preliminary round of International Young Physicists' Tournament (IYPT)
- Conducted research on open-ended real-world problems related to physics – “Conical Piles” and “Weighing Time”
- Grand Prize(1st place)
- Minister of Science and ICT Award

ACTIVITIES

ALKUL, SNU

Seoul, S.Korea

STUDENT REPRESENTATIVE

2022,2023

- Student representative in Alkul, ukulele club of Seoul National University

ACADEMIC MENTOR, SNU

Seoul, S.Korea

SUBJECT : INTRODUCTION TO ALGORITHMS

2022

- Mentoring program governed by ECE department of Seoul National University

CAMBORNE SCIENCE AND INTERNATIONAL ACADEMY

Camborne, United Kingdom

EXCHANGE STUDENT

07/2019

- expense fully covered by Korea Science Academy of KAIST

IMPERIAL GLOBAL SUMMER SCHOOL

London, United Kingdom

PROGRAMME: PHYSICS

07/2018

- Science camp with research & cultural experience in Imperial College London
- expense fully covered by Korea Science Academy of KAIST

R&E, KARI

Daejeon, S.Korea

STUDENT RESEARCHER

03/2018 - 11/2018

- Research on space debris mitigation with Korea Aerospace Research Institute(KARI)
- R&E Program of Korea Science Academy of KAIST

SKILLS

LANGUAGE KOREAN(NATIVE), FLUENT ENGLISH(NEWTEPS : 483)

PROGRAMMING C++, PYTHON, CUDA, MATLAB

TOOL PYTORCH, NUMPY, SCIPY, PANDAS, GIT, DOCKER, LATEX