

Seoyong Lee

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"Everything's gonna be alright"

Education

Seoul National University

DEPT. OF ELECTRICAL AND COMPUTER ENGINEERING

Leave of absence for alternative military service(01/2023-12/2024)

Seoul, Korea

03/2020–Current

GPA : 4.26/4.3

Korea Science Academy of KAIST

MAJORED IN PHYSICS

Graduated with distinction in overall GPA, Busan Mayor's award

Busan, Korea

03/2017–02/2020

GPA: 4.27/4.3

Research Interests

PHOTONIC NEURAL NETWORKS; OPTICAL COMPUTING; MEDICAL IMAGING;
MATHEMATICAL ALGORITHMS AND DEEP LEARNING;

WORK EXPERIENCE

AB180

DATA SCIENTIST

Seoul, S.Korea

10/2023–Current

- Implemented algorithms for calibrating Ad attribution. Solved problems related to linear regression, constrained optimization, and machine learning
- Worked on devising Retrieval-Augmented Generation(RAG) algorithm for improving business productivity. Implemented using Langchain, Chroma DB, and LLM/embedding models

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 MRI reconstruction

SELECTED HONORS & AWARDS

NATIONAL SCIENCE TECHNOLOGY SCHOLARSHIP

2022.01–Current

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

2021 ICPC ASIA SEOUL REGIONAL

10/2021 - 11/2021

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

SCHOLARSHIP FOR ACADEMIC EXCELLENCE

2021, 03/2017-02/2020

- \$10K financial support over the period

KOREAN YOUNG PHYSICISTS' TOURNAMENT, GRAND PRIZE

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, MATLAB

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