

Ho Joon Kim

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EDUCATION

Electrical and Computer Engineering, Seoul National University, Seoul, Korea

Relevant Coursework:

□ System Programming	A+	Spring, 2024
□ Computer Organization	A+	Spring, 2024
□ Digital Systems Design and Experiment	A0	Fall, 2023
• Digital Logic Design and Lab	A0	Fall, 2021
• Programming Methodology	A+	Spring, 2021
• Linear Algebra for Electrical Systems	A0	Fall, 2023
• Linear Algebra	A0	Spring, 2021
• Engineering Mathematics 1, 2	A0, A+	Spring, 2021
• Calculus 1, 2	A0, A+	Spring, 2020

RESEARCH EXPERIENCE / PROJECTS

- **Undergraduate Intern, MODU LABS** 2021. 6 ~ 2021. 9
I worked as a Backend Engineer intern. I developed functionalities for the website and fixed errors related to the website's database. I also tested the new website that will be launched. The website was for the "AIFTEL" project, which is an AI tutoring business. Additionally, I worked on a small project to synchronize various time-related functions associated with "AIFTEL". I also synchronized the pre-existing time-related datas in the database.
- **Undergraduate Research Intern, Computer Architecture and Systems LAB** 2024. 1 ~ 2024. 2
As an Undergraduate Research Intern, I focused on Point Cloud networks. Based on the paper "Mesorasi: Architecture Support for Point Cloud Analytics via Delayed-Aggregation," I implemented my versions of DGCNN and PointNet2, as well as delayed aggregation versions of these models. Using Nvidia Nsight Systems, I profiled the latency of Point Cloud Networks and point sampling algorithms. Additionally, I applied voxelization to the ModelNet40 and KITTI datasets, reproducing the analysis graphs presented in "Point Cloud Acceleration by Exploiting Geometric Similarity" and generating new graphs. Given more time, I would have applied GDPCA to various Point Cloud networks.

HONORS AND AWARDS

- 4th Prize - Kakao enterprise, 1th Military AI Competition, Ministry of National Defense & Ministry of Science and ICT, 2022
- Best Mentor award, Best Mentoring Team award – Seoul National University, Campus Mentoring Program, Seoul National University Center for Campus Life & Culture, 2024

TECHNICAL SKILLS

Languages: Fluent in English (TOEFL 93 - 2022.11)

Computer Skills: C++, C, Python, Verilog

EXTRA CURRICULARS

- **ROK Army** 2022. 1 ~ 2023. 7
North Korean Ground Force Data Transcriptionist (Sergeant, Korea 777 Command)