

Jiho Choi

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EDUCATION

Yonsei University, Seoul, South Korea
B.S., Electrical and Electronic Engineering (GPA: 4.07/4.3), Feb. 2025

Nanyang Technological University, Singapore
Visiting Student Program, Entrepreneurship and Innovation, June 2024–July 2024

University of California, Los Angeles, Los Angeles, United States
Exchange Student Program, Electrical Engineering, Jan. 2023–June 2023

Gyeongnam Science High School, Jinju, South Korea
High School Diploma, Feb. 2020

RESEARCH EXPERIENCE

Undergraduate Researcher, Jan. 2024–June 2024
Compiler Optimization Research Lab (Advisor: Prof. Hanjun Kim), Yonsei University

- Developed a client-server application using the Keystone trusted execution environment (TEE) framework to securely execute client-requested arithmetic operations within a trusted enclave
- Studied the operation of TEEs and explored opportunities to optimize their performance
- Developed proficiency in writing LLVM passes for program analysis and optimization

WORK EXPERIENCE

Co-Founder & Chief Technology Officer, Mar. 2024–Oct. 2025
MEGA, Seoul, South Korea

- Developed a smart demand response (DR) controller that automates DR event responses and is compatible with a wide range of household appliances, enhancing residential participation in DR
- Selected for the Yonsei-Asan UniverCT Climate Tech Startup Accelerator; received \$12.6K in grant funding from the Asan Nanum Foundation and won the Excellence Award (\$2K) at Demo Day

Research Intern, July 2024–Oct. 2024
NetZero LAB, Gwangmyeong, South Korea

- Participated in a project to integrate on-site photovoltaic generation with smart farming operations

TEACHING

ENGN08 Engineering Information Processing, Yonsei University, Fall 2024
Undergraduate Teaching Assistant

- Led weekly two-hour lab sessions for 40 students, covering the basics of C programming
- Wrote and graded assignments and exams

HONORS AND AWARDS

Excellence Award (\$500), Women in Science, Engineering and Technology in Korea (WITECK), 2024
Excellence Award (\$2K), Yonsei-Asan UniverCT Demo Day, 2024
Yonsei-Asan UniverCT Startup Grant (\$12.6K), Asan Nanum Foundation, 2024
Study Abroad Scholarship (\$7K), Mirae Asset Park Hyeon Joo Foundation, 2023
Academic High Honors (Top 3% GPA), Yonsei University, 2021
Academic Honors (Top 10% GPA), Yonsei University, 2020

EXTRACURRICULAR ACTIVITIES

Yonsei Electrical and Electronic Engineering Honor Society, Member, 2021–2025
Yonsei-Asan UniverCT Climate Tech Startup Accelerator, Participant, 2024
Yonsei EE Festival, Organizing Staff, Fall 2022
Yonsei EE Peer Tutor Program, Organizer, Fall 2022
Yonsei EE Peer Tutor Program, PHY101 General Physics & Experiment(1) Tutor, Spring 2021
Yonsei GLC Online Tutoring, MAT101 Engineering Mathematics(1) Tutor, Spring 2021

TECHNICAL SKILLS

Languages C, C++, Assembly (RISC-V, x86-64), Python, MATLAB
Tools Verilog, Vivado/Vitis, Arduino, CUDA, LLVM, HTML, CSS, Git, \LaTeX