Jaejun Ko

Master's Student

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Research Interests

Fully Homomorphic Encryption

Secure Multi-Party Computation

Privacy-Preserving Machine Learning

Post-Quantum Cryptography

Education

Seoul National University, Integrated M.S./Ph.D. in Computer Science & Engineering — Mar 2026 – present

- Advisor: Prof. Yongsoo Song

Seoul National University, B.S. in Computer Science & Engineering — Mar 2021 – Feb 2026

- Double Major in *Mathematical Sciences*
- GPA: 4.01/4.30

Research Experience

Undergraduate Intern, Cryptography & Privacy Lab – Dept. of Computer Science and Engineering, Seoul National University, South Korea — July 2025 – Feb 2026

Topic: Achieving Ciphertext Simulatability in the GBFV Scheme

- Achieving Ciphertext Simulatability in the GBFV scheme with arbitrary parameters

Undergraduate Intern, Cryptography & Privacy Lab – Dept. of Computer Science and Engineering, Seoul National University, South Korea — June 2023 – Aug 2023

Topic: Implementation of CNN Using Lattigo

- Implemented the paper *Low-Complexity Deep Convolutional Neural Networks on Fully Homomorphic Encryption Using Multiplexed Parallel Convolutions* (E. Lee et al., 2022) using Lattigo
- Analyzed CNN Training for FHE

Projects

AI Tagging and Searching – Team Leader, Presenter — Sept 2023 – Dec 2023

- Industry-University Linkage SW project for course *"Creative Integration Project 1"* of 2023-Fall Semester
- Development of AI Tagging and Searching tool utilizing Generative AI APIs

Compiler Optimization using LLVM – Team Member — Mar 2023 – June 2023

- Term project for course *"Principles and Practices of Software Development"* of 2023-Spring Semester
- Development of Optimization Pass for the unusual compiler compiling LLVM IR to Assembly

Honors and Scholarship

- **Summa Cum Laude**, Seoul National University, South Korea
- **National Science & Technology Scholarship**, Korea Student Aid Foundation, South Korea

Skills

Languages: Korean (native), English (fluent), Japanese (conversational)

Programming Languages: C/C++, Go, Python, Java, Julia, LaTeX