Hwang In Tak

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RESEARCH INTERESTS

Modern Cryptography, including but not limited to: Lattice–Based Cryptography, Fully Homomorphic Encryption, and Zero Knowledge Proofs

EDUCATION

Seoul National University

2023 — Present

Integrated M.S./Ph.D. in Computer Science & Engineering

Advisor: Prof. Yongsoo Song

UC Berkeley 2018 Summer

Summer Sessions, in part of DGIST Freshmen Global Leadership Program (FGLP)

DGIST 2018 — 2022

B.S. in School of Undergraduate Studies

Summa Cum Laude

PUBLICATIONS

Optimizing HE via Level-aware Key-switching

Intak Hwang, Jinyeong Seo, Yongsoo Song WAHC 2023

PRESENTATIONS

Accelerating Homomorphic Encryption via Level-aware Key-switching

2023.04

2023 KMS Spring Meeting

HONORS AND SCHOLARSHIPS

CTF Security Competitions	2020 — 2022
SSTF Hacker's Playground 2022	5th place
WhiteHat Contest 2021	3rd place
DEF CON CTF 2021	Finalist
PlaidCTF 2021	5th place
Real World CTF 2020/2021 (Media Coverage)	1st place
Midnight Sun CTF 2020 Finals	7th place
TokyoWesterns CTF 2020 Finals	3rd place
DEF CON CTF 2020	Finalist

DGIST Dean's List

SKILLS

Languages

Korean (native), English (fluent)

Programming Languages

Advanced: Go, Python (SageMath) Intermediate: C, C++, C#, Rust

OTHER ACTIVITIES

Member of CTF Team CodeRed

2020 — Present

I participate in CTF competitions from time to time, mostly solving crypto challenges.

Developer & Writer of Team Invertible

2020 — Present

I am actively working on INVERTIBLE, a sokoban puzzle game. We recently ran our first closed beta test. We are planning to release the game on Steam in 2023.

OTHER INTERESTS

I love watching films. I wrote and directed three short films in college, and I still write screenplays as a hobby!