



Minhyuk Jo

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[Mindol7](#) | [Mindol7](#)

"While many may excel, few possess the discipline to persevere consistently."

Education

Korea University, Seoul

M.S. IN Information Security

- **TBD**

Seoul, Korea

Mar. 2026 - Present

Dankook University, Yongin

B.S. IN Mobile Systems Engineering

- Total GPA of 4.25/4.5, Major GPA of 4.25/4.5 (Credits Taken: 142/140)

Yongin, Korea

Mar. 2020 - Feb. 2026

Experience

WhiteHat School, 3rd – Next-Generation Security Leader Training Program (Pre-BoB)

3rd Class Trainees

- Organized by Korea Information Technology Research Institute (KITRI)
- Completed Core and Advanced Training in Information Security
 - 1. Core: Security Ethics & Policy, Web Hacking, Network Hacking, System Hacking, Digital Forensics (Basics), Cloud Security (Basics)
 - 2. Advanced: Incident Response, Threat Analysis, Digital Forensics
- Projects: Designed and implemented a log-based intrusion detection system (IDS) in AWS cloud environment

Gasan D.C., Korea

Mar. 2025 - Sep. 2025

Undergraduate Research Student, CSOS Lab.

Research Assistant Student

- Advisor Professor: Seong-Je Cho
- Participation in Research Projects
 - 1. Development of an Autonomous Driving-Based Intelligent Building Energy and Environment Integrated Management System (iBEEMS), **KETEP**
 - 2. Effective and Intelligent Framework for Mobile Platform-Based Vehicle Forensics, **NRF**
 - 3. Development of Integrated Analysis Technology for Internal and External Automotive Artifacts Using Event-Based Experimental System, **IITP**

Yongin, Korea

Mar. 2024 - Jun. 2025

Republic of Korea Army, 66th Division

Network Operations and Maintenance Specialist

- Military Network & Computer Operator.
- Honorable discharged from the Republic of Korea Army as a Sergeant after full term of service.

Gapyeong, Korea

Aug. 2021 - Feb. 2023

Publications

International

• Conference

1. **Minhyuk Cho, SunJae Kim, Seong-Je Cho**, "Effects of Timestamp Manipulation in a Car Audio Video Navigation System Connected to a Smartphone via Bluetooth: A Preliminary Study", *The 10th International Conference on Next Generation Computing (ICNGC) 2024. Clark, Philippines.*

Domestic

• Journal

1. **San Lee, MinHyuk Cho, JiHeun Jung, Seong-Je Cho**, "Log Analysis Techniques for Identifying Timestamp Manipulation in Linux and Android Systems", *THE JOURNAL OF KOREAN INSTITUTE OF NEXT GENERATION COMPUTING (KCI)*, 2024.

• Conference

1. **MinHyuk Cho, MinSeo Jung, SuBin Kang, JungMin Yim, SeeHwan Yoo**, "Security Vulnerability Analysis and Exploitation of the Copy-and-Patch JIT Compiler Mechanism in CPython", *Korea Computer Congress (KCC), 2025. Jeju, Korea.* [Excellent Paper Award]
2. **MinHyuk Cho, San Lee, JiHeun Jung, SunJae Kim, Seong-Je Cho**, "Detecting Timestamp Manipulation in Bluetooth-Connected Smartphone and Automotive Infotainment System", *Workshop on Dependable and Secure Computing (WDSC) 2024. Jeju, Korea.*

Patents

Patent Application

1. Apparatus and method for collecting and storing event data from mobile devices
 - **MinHyuk Cho, Seungmin Lee, Seongwon Jeong, Seong-Je Cho**
 - Application No: 10-2025-0067605
2. Network Synchronization Environment Based Time Manipulation Detection Device and Method
 - **MinHyuk Cho, JiHeun Jung, Seong-Je Cho**
 - Application No: 10-2024-0156364

Projects

KITTY: Keep It Talk-safe To Youth

Association of SW-Centered Universities.

May.2025 - Aug. 2025

Project Member

- Selection of Dankook University's Representative Team
- Advancement to the Finals in the Digital Competition for Software-Centered Universities
- Developed a digital safety solution for children and adolescents to detect and prevent harmful online communication
- Selected as a representative team at DKU and advanced to the finals of a national software innovation competition
- Outcome: 1 mobile application service, 1 Sponsoring Company Award

Designed and implemented a log-based intrusion detection system (IDS) in AWS cloud environment

WHS, KITRI.

Mar. 2025 - Aug.2025

Project Member

- Designed and implemented intrusion detection systems across basic, intermediate, and advanced attack scenarios
- Developed initial prototypes using the AWS console, later transitioned to infrastructure-as-code with Terraform
- Documented all implemented scenarios in a structured security operations workbook

Security Vulnerability Analysis of JIT Compiler

KIISE.

Dec. 2024 - Jul. 2025

Project Leader

- Analyzed vulnerabilities in the Copy-and-Patch JIT Compiler used in CPython
- Targeted ARM-based architectures for exploit development
- Successfully executed shellcode via syscall and memory overwrite to gain shell access
- Outcome: 1 domestic conference paper published

FISHER: Fraudulent Incoming Speech Handling and Event Recoder

Dankook Univ.

Mar. 2025 - Jun. 2025

Deep Learning & Security Part

- Participated in Deep Learning and Security Module Development.
- Developed a Deep Voice Detection Model to Identify Voice Phishing Attempts

Timestamp Manipulation Detection Process Development

CSOS Lab, Dankook Univ.

Mar. 2024 - Nov. 2025

Projects Leader

- Designed a detection pipeline to identify manipulated timestamps via log analysis
- Implemented detection mechanisms for Linux systems and Android smartphone & Car connected over Bluetooth
- Outcome: 1 domestic conference paper, 1 international conference paper, 1 domestic KCI-indexed journal paper, 1 patent application filed

Awards / Scholars

AWARDS

- 2025 Grand Prize Award, Awarded by Megastudy, Seoul (AI Prompt Engineering Contest 2025)
2025 Corporate Sponsorship Award, Awarded by SPARTA, Seoul (Digital Competition 2025)
2025 Excellent Paper Award, Awarded by KIISE, Jeju (KCC 2025).

SCHOLARS

- 2025 Academic Excellence Scholarship, Awarded by Dankook University, Yongin (FALL).
2025 Academic Excellence Scholarship, Awarded by Dankook University, Yongin (SPRING).
2024 Academic Excellence Scholarship, Awarded by Dankook University, Yongin (FALL).
2024 Mugunghwa Scholarship, Awarded by Gyeonggi Nambu Provincial Police (SPRING).
2020 SW Talent Scholarship, Awarded by Dankook University, Yongin (SPRING).

Skills

Languages	Korean(native), English(intermediate)
Programming	Assembly Script, Python, JAVA, C/C++, LaTex
Tools	FTK Imager, Autopsy, Wireshark, ElfTool, Ollydbg, GDB, etc.
Cloud/IaC	AWS, Terraform
Certificated	AWS Certified Cloud Practitioner(CLF-C02), Digital Forensics Specialist Level 2 (Written Exam), Linux Master Level 2, Craftsman Information Processing