



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-si

B.S. IN Mobile Systems Engineering

- Total GPA of 4.22/4.5, Major GPA of 4.21/4.5 (Credits Taken: 128/140)

Yongin, Korea

Mar. 2020 - Present

Experience

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

3rd Class Trainees

Gasan D.C., Korea

Mar. 2025 - Sep. 2025

- 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

Undergraduate Research Student, CSOS Lab.

Research Assistant Student

Yongin, Korea

Mar. 2024 - Jun. 2025

- Advisor Professor: Seong-Je Cho

- Participation in Research Projects

1. Development of an Autonomous Driving-Based Intelligent Building Energy and Environment Integrated Management System (iBEEEMS), **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**

Republic of Korea Army, 66th Division

Network Operations and Maintenance Specialist

Gapyeong, Korea

Aug. 2021 - Feb. 2023

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

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