



# Minhyuk Jo

Hanam-si, Gyeonggi-do 12955, Rep. of KOREA

(+82) 10-4923-2198 | cgumgek8@gmail.com

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

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

## Education

### Korea University, Seoul

M.S. IN Information Security

- M.S. Student in Digital Forensic Research Center ([DFRC](#))
- Advisor Professor: Jungheum Park

Seoul, Korea

Mar. 2026 - Present

### Dankook University, Yongin

B.S. IN Mobile Systems Engineering

- GPA: 4.25/4.5,
- Major GPA: 4.25/4.5
- Credits Taken: 142/140

Yongin, Korea

Mar. 2020 - Feb. 2026

Graduated First Class Honor

## Experience

### M.S. Research Student, DFRC Lab.

Research Intern

- Digital Forensic Research Center (DFRC)
- Advisor Professor: Jungheum Park

Seoul, Korea

Mar. 2026 - Present

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

3<sup>rd</sup> Class Trainees

- Organized by Korea Information Technology Research Institute (KTRI)
- 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 Intern

- 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, 66<sup>th</sup> 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

- 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

- |      |  |
|------|--|
| 2026 | Academic Excellence Award, Awarded by Dankook University, Yongin (Graduation Ceremony) |
| 2026 | Alumni Association Award, Awarded by Dankook University, Yongin (Graduation Ceremony)  |
| 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

---

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