

Minhyuk Jo

M.S. Student, School of Information Security, Korea University

Seoul, South Korea | cgumgek8@korea.ac.kr | +82 10 4923 2198 | LinkedIn | GitHub

Research Interests

- Digital Forensics
- Incident Response (IR)
- AI Forensics
- Anti Forensics

Education

Korea University , M.S. in Information Security Advisor: Prof. Jungheum Park Digital Forensic Research Center (DFRC) GPA: 4.5 / 4.5 Credits Taken: 11 / 36	Mar 2026 – Current
Dankook University , BS in Mobile Systems Engineering (MSE) Left for military service during 2021-2023 GPA: 4.25 / 4.25 (Major GPA: 4.25 / 4.25) First Class Graduated Credits Taken: 142 / 140	Mar 2020 – Feb 2026

Work Experience

Korea University , Seoul, Korea M.S. Researcher in Digital Forensic Research Center (DFRC) Topic: Digital Forensics, AI Forensics, Drone Forensics, etc.	Mar 2026 – Current
WhiteHat School 3rd , Seoul, Korea Complete core and advanced training in Information Security Project: Designed and implemented a log-based intrusion detection system (IDS) in AWS cloud environment	Mar 2025 – Sep 2025
Dankook University , Yongin Korea Research Intern Advisor: Seong-Je Cho Topic: Digital Forensics, Vehicle Forensics	Mar 2024 – Jun 2025
Republic of Korea Army, 66th Division , Gapyeong, Korea Network Operations and Maintenance Specialist Honorably discharged from the ROKA as a Sergeant after full term of service	Aug 2021 – Feb 2023

Publications

Journal Publications

- [1] "AEGIS: A Robus Log Preservation and Anti-Forensics Resilient Framework for Android Digital Investigation", **Minhyuk Cho**, Seungmin Lee, Sungwon Jung, Seong-Je Cho, Minkyu Park, *FSI: Digital Investigation (SCI Q1)*, 2026. (Acceptance rate: 9%, IF:3.1).
- [2] "Log Analysis Techniques for Identifying Timestamp Manipulation in Linux and Android Systems", San Lee, **MinHyuk Cho**, JiHeun Jung, Seong-Je Cho, *THE JOURNAL OF KOREAN INSTITUTE OF NEXT GENERATION COMPUTING (KCI)*, 2024.

Conference Publications

- [1] "Security Vulnerability Analysis and Exploitation of the Copy-and Patch JIT Compiler Mechanism in CPython", **Minhyuk Cho**, Minseo Jung, Subin Kang, Jungmin Yim, Seehwan Yoo, Korea Computer Congress (KCC), 2025. Jeju, Korea. **[Excellent Paper Award]**
- [2] "Effects of Timestamp Manipulation in a Car Audio Video Navigation System Connected to a Smartphone via Bluetooth: A Preliminary Study", **Minhyuk Cho**, Sunjae Kim, Seong-Je Cho, *The 10th International Conference on Next Generation Computing (ICNGC) 2024*. Clark, Philippines.
- [3] "Detecting Timestamp Manipulation in Bluetooth-Connected Smartphone and Automotive Infotainment System", **Minhyuk Cho**, San Lee, Jiheun Jung, Sunjae Kim, Seong-Je Cho, *Workshop on Dependable and Secure Computing (WDSC) 2024*. Jeju, Korea.

Patents

Domestic

- [1] "모바일 장치에서 발생한 이벤트 데이터를 수집하고 저장하는 장치 및 방법". Seong-Je Cho, **Minhyuk Cho**, Seungmin Lee, Jungwon Jung, May 2025.
[KS Patent No. 10-2990306, Registered]
- [2] "네트워크 동기화 환경 기반 시간 조작 탐지 장치 및 방법". Seong-Je Cho, **Minhyuk Cho**, Jiheun Jung, Nov 2024.
[KS Patent No. 10-2024-0156364, Applied]

Research Projects Involved

온디바이스 인공지능 모델 대상 포렌식 기술 개발, funded by KIPoT	April 2026 – Current
Confidential , funded by Confidential	Confidential
디지털포렌식 분야의 산학연관 협력 생태계 고도화를 위한 종합 연구, funded by SPO	April 2026 – Current
4 단계 BK21 정보보호학교육연구단 국고지원금, funded by Ministry of Education	May 2024 – Current
자율운전 기반 지능형 건물 에너지-환경 통합 관리 시스템 (iBEEMS) 개발, funded by KETEP	Mar 2025 – Jun 2025
이벤트 기반 실험시스템 구축을 통한 자동차 내·외부 아티팩트 수집 및 통합 분석 기술 개발, funded by IITP	Aug 2024 – Dec 2024
모바일 플랫폼 기반 차량 포렌식을 위한 효과적/지능적 프레임워크, funded by NRF	May 2024 – Feb 2025

Awards

Academic Excellence Award , from Dankook University, Yongin (Graduation Ceremony)	Feb 2026
Alumni Association Award , from Dankook University, Yongin (Graduation Ceremony)	Feb 2026
Grand Prize Award , from Megastudy, Seoul (AI Prompt Contest 2025)	Nov 2025
Corporate Sponsorship Award , from SPARTA, Seoul (Digital Competition 2025)	Aug 2025
Excellent Paper Award , from KIISE, Jeju (KCC 2025)	Aug 2025

Scholars

BK 21+ Scholarship , from Ministry of Education of Korea, Seoul	Mar 2026
Academic Excellence Scholarship , from Dankook University, Yongin	Sep 2025
Academic Excellence Scholarship , from Dankook University, Yongin	Mar 2025
Academic Excellence Scholarship , from Dankook University, Yongin	Sep 2024
Mugunghwa Scholarship , from Gyeonggi Nambu Provincial Police Agency, Suwon	Mar 2024
SW Talent Scholarship , from Dankook University, Yongin	Mar 2020

Skills

Languages: English, Korean

Programming Languages: C/C++, Python, JAVA, Assembly, Latex, etc

Tools/Frameworks: FTK Imager, Autopsy, Wireshark, GDB, Elftool, ADB, EnCase, Axiom, MD-Series, etc.

Certificated: AWS Certified Cloud Practitioner (CLF-C02), Digital Forensics Specialist Level 2 (Written Exam), Linux Master Level 2, Craftsman Information Processing

References

Prof. Jungheum Park (M.S. Advisor)

Professor, Department of Information Security, Korea University

Email: jungheumpark@korea.ac.kr / Tel: +82-2-3290-4738

Prof. Seong-Je Cho

Professor, Department of Software, Dankook University

Email: sjcho@dankook.ac.kr / Tel: +82-31-8005-3245