

Junhak Lee

Master Student

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EDUCATION

Feb. 2024 ~ Present	Korea Advanced Institute of Science and Technology Graduate School of Information Security	Daejeon, Korea
	<i>Advisor: Sangkil Cha</i>	
	<i>Master Student</i>	
Mar. 2019 ~ Aug. 2023	Chung-Ang University Industrial Security & Software	Seoul, Korea
	<i>B.S. in Industrial Security & Software</i>	
	GPA: 4.23 / 4.5	
	<i>Summa Cum Laude</i>	

RESEARCH INTERESTS

- Fuzzing
- System hacking
- Vulnerability detection
- Vulnerability analysis

PUBLICATIONS (SCIE/ESCI)

1. "Advanced R-GAN: Generating anomaly data for improved detection in imbalanced datasets using regularized generative adversarial networks", *CONVG_SECURITY-25*, Junhak Lee, Dayeon Jung, Jihoon Moon, S Rho (2025)
2. "Verification of De-Identification Techniques for Personal Information Using Tree-Based Methods with Shapley Values", *MDPI*, Junhak Lee, Jinwoo Jeong, Sungji Jung, Jihoon Moon, Seungmin Rho (2022)

PUBLICATIONS (DOMESTIC)

1. AI-based Attack Method Classification System and Analysis of Vulnerability Characteristics for Software Security Enhancement, *한국산업보안연구*, Junhak Lee, Dakyung Lee, Jihyun Geum, Sunjin Han (2023)

AWARDS AND HONORS

- 2023 HACKTHEON SEJONG Finalist, Sejong City, Korea (May. 2023)
- 2022 CODEGATE (University) 17th, CODEGATE, Korea (Nov. 2022)

PROJECTS

- Development of Cybersecurity Threat Response Technologies for Satellite Ground Stations, KAIST, Korea (Apr. 2025 ~ Present)
- Home network hacking prevention VDI/Cloud-based for cyber firewall solution alcohol development, SecureA, Korea / Participating Researcher (Security development) (Jan. 2023 ~ Jun. 2023)
- Research on ways to improve smart work environment cyber supply chain risk management and network separation, CAU, Korea / Participating Researcher (Jun. 2021 ~ Oct. 2021)
- Fuzzing I/O Communications in Windows Device Driver, BoB, Korea / Fuzzer development (Jul. 2020 ~ Dec. 2020)

SKILLS AND TECHNIQUES

- C/C++
- pwn
- fuzzing

POSITION HELD

- KITRI BoB(Best of Best) 9th Vulnerability Analysis Completion (2020.7~2021.3)
- ISANG(CAU CTF Team) Leader (2022.3~2023.7)
- Coding Plus Academy (Mokdong/Sangdo Campus) Coding instructor (2022.2~2024.2)
- KISA K-shield Jr. 7th Security incident analysis response Completion (2021.8~2021.11)
- SecureA security developer (2023.1 ~ 2024.2)

LECTURE

- System Hacking Basic for CTF / 해킹대회(CTF) 출전을 위한 시스템해킹(Pwnable) 입문 [Inflearn]
 - *link : <http://bit.ly/4m3eT2a>*
- Reverse Engineering & SW Bug Hunting / 리버스 엔지니어링 및 SW 버그 헌팅 [Samsung DS, KISEC]
 - *link : <https://www.postype.com/@juntheworld/post/13285052>*