

# Junhak Lee

Master Student

KAIST

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## EDUCATION

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

## 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

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

## PROJECTS

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- 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

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- C/C++
- pwn
- fuzzing

## POSITION HELD

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- 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

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- 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>