

Kiho Lee

Visiting Scholar of Cybersecurity & AI Research
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RESEARCH INTERESTS

AI for Cybersecurity [[USENIX '24](#)] [[WWW '24](#)] [[IEEE S&P '24](#)] [[CCS '22](#)]

APPOINTMENTS

University of Tennessee, Knoxville, Knoxville, TN Jan. 2024 — Present
Visiting Scholar for Cybersecurity & AI Research
Advisor: Prof. Doowon Kim

EDUCATION

Sungkyunkwan University (SKKU), Suwon, South Korea Mar. 2022 — Feb. 2024
M.S. in Computer Science and Engineering (Convergence Security Track) Cumulative GPA: 4.31/4.5
Advisor: Prof. Hyoungshick Kim

Hongik University, Seoul, South Korea Mar. 2015 — Feb. 2019
B.E. in Computer Science and Engineering

PUBLICATIONS

* Underline: 1st author.

Submitted / Under Review

Parameter-Efficient Fine-Tuning for Secure Code Generation with Large Language Models

Kiho Lee, Jungkon Kim, Daehoon Ko, Hyoungshick Kim, and Doowon Kim

Under review, submitted to [[FSE '25](#)]

On the Effectiveness and Robustness of Visual Similarity-based Phishing Detection Models

Under review, submitted to [[USENIX Security '25](#)]

Open Sesame! On the Security and Memorability of Verbal Passwords

Under review, submitted to [[IEEE S&P '25](#)]

What's in Phishers: A Longitudinal Study of Security Configurations in Phishing Websites and Kits

Under review, submitted to [[WWW '25](#)]

7 Days Later: Analyzing Phishing-Site Lifespan After Detected

Under review, submitted to [[WWW '25](#)]

When Does Wasm Malware Detection Fail? A Systematic Analysis of Evasive Techniques

Under review, submitted to [[WWW '25](#)]

PEER-REVIEWED CONFERENCE PUBLICATIONS

C.3.An LLM-Assisted Easy-to-Trigger Poisoning Attack on Code Completion Models: Injecting Disguised Vulnerabilities against Strong Detection [[PDF](#)]

Shenao Yan, Shen Wang, Yue Duan, Hanbin Hong, **Kiho Lee**, Doowon Kim, and Yuan Hong

[[USENIX Security '24](#)]: The 33rd USENIX Security Symposium (USENIX Security) 2024.

C.2.Poisoned ChatGPT Finds Work for Idle Hands: Exploring Developers' Coding Practices with Insecure Suggestions from Poisoned AI Models [[PDF](#)]

Sanghak Oh, **Kiho Lee**, Seonhye Park, Doowon Kim, and Hyoungshick Kim

[[IEEE S&P '24](#)]: The 45th IEEE Symposium on Security and Privacy, San Francisco, USA, 2024.

C.1.AdFlush: A Real-World Deployable Machine Learning Solution for Effective Advertisement and Web Tracker Prevention [[PDF](#)] [[CODE](#)]

Kiho Lee, Chaejin Lim, Beomjin Jin, Taeyoung Kim, and Hyoungshick Kim

[[WWW '24](#)]: The 33rd World Wide Web Conference, Singapore, 2024.

Refereed Posters and Demos

P.1. Adversarial Perturbation Attacks on the State-of-the-Art Cryptojacking Detection System in IoT Networks (Poster) [\[PDF\]](#)
Kiho Lee, Sanghak Oh, and Hyounghick Kim
[\[CCS '22\]](#): The 29th ACM Conference on Computer and Communications Security, Los Angeles, USA, 2022.

SERVICES

- Reviewer, World Wide Web Conference Security Track, 2025
- Artifact Evaluation Program Committee, USENIX Security Symposium, 2025

HONORS & AWARDS

- Best Student Researcher Award, Sungkyunkwan University, 2024
- Simsan Scholarship (Outstanding Graduate Student), Sungkyunkwan University, 2023
- SKKU CTF Challenge 2nd place, Sungkyunkwan University, 2023
- Software Development Security Hackathon 2st place, Korea Internet & Security Agency (KISA), 2023
- AI Security Technology Detection Competition 1st place, Korea Internet & Security Agency (KISA), 2021

WORK EXPERIENCE

ARMY ROTC (RoK Army, Military service), South Korea Mar. 2019 — Jun. 2021

- Cyber Intelligence Operations Officer (1st Lt.)
- Radio and Tactical Satellite Platoon Leader (2nd Lt.)

UPSYSTEMS, INC., South Korea

- Intern - Software Versioning, Managing IDS/IPS Policies Dec. 2015 — Jun. 2016
- Software Developer - Developing File Encryption Systems Jan. 2023 — Jun. 2024

PROJECTS

Machine learning-based web tracker prevention framework Jun. 2022 — Dec. 2023
Korea Internet & Security Agency (KISA), South Korea

Implementing an auto code generation with fine-tuned large language model Mar. 2023 — Dec. 2023
Electronics and Telecommunications Research Institute (ETRI), South Korea

Unsupervised learning-based anomaly detection for industrial control systems Mar. 2022 — Dec. 2022
National Security Research Institute (NSR), South Korea

Implementing the Gidra Emulation Plugin for firmware rehosting May. 2022 — Nov. 2022
National Security Research Institute (NSR), South Korea

SKILLS

Language: C/C++; Rust; Python; JavaScript (TypeScript); SQL (PostgreSQL; SQLite3); Shell;
OS: Debian (Ubuntu; Kali Linux); CentOS; OpenBSD;
Machine learning: Pytorch; Tensorflow; AWS SageMaker; PEFT; DeepSpeed; HuggingFace;
Security:
- **Penetration testing:** Web applications; Burp Suite; Postman; Active Directory; OWASP ZAP;
- **Reverse Engineering:** Ghidra; IDA PRO;