

## Kiho Lee

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## RESEARCH INTERESTS

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

## APPOINMENTS

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

## EDUCATION

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**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

## PEER-REVIEWED CONFERENCE PUBLICATIONS

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\* 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 [\[NDSS '25\]](#)

**Do Phishing Attackers Consider Security? Comprehensive Analysis of the Phishing Ecosystem with Security Configurations**

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

### Refereed Conference Proceedings

**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 Hyoungshick Kim

[\[CCS '22\]](#): The 29th ACM Conference on Computer and Communications Security, Los Angeles, USA, 2022.

## SERVICES

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- ACM TheWebConf (World Wide Web) Conference Security Reviewer, 2025
- The 34th USENIX Security Symposium Artifact Evaluation Program Committee, 2025

## HONORS & AWARDS

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- 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

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**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

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**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

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**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;

## REFERENCES

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**Prof. Doowon Kim**

*Assistant Professor of Electrical Engineering and Computer Science, University of Tennessee, Knoxville*

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**Prof. Hyounghshick Kim**

*Associate Professor of Electrical Engineering and Computer Science, Sungkyunkwan University, South Korea*

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