

# Minseok (Denis) Kim

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## EDUCATION

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| <b>PH.D.</b> , Software                 | <i>Sungkyunkwan University</i><br>Advisor: Hyungjoon (Kevin) Koo                                      | In progress |
| <b>M.S.</b> , AI Systems<br>Engineering | <i>Sungkyunkwan University</i><br>Co-advisors: Hyungjoon (Kevin) Koo and Jinyeong Bak. GPA 4.5 / 4.5. |             |
| <b>B.A.</b> , Software                  | <i>Sungkyunkwan University</i>  |             |

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## RESEARCH INTERESTS

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- Adversarial robustness of advanced AI systems – Retrieval-Augmented Generation, agent communication protocols (MCP, A2A), and autonomous-agent trust boundaries.
- Trust-boundary security analysis for autonomous AI agents, with emphasis on the shift from output safety to behavioral safety.
- Large language models for cybersecurity – binary analysis, reverse engineering, and code similarity detection.
- Agent-driven C-to-Rust transpilation: autonomous coding agents that translate legacy C into idiomatic, memory-safe Rust while preserving behavior.
- Defenses against data poisoning and prompt injection: lightweight post-retrieval filtering for RAG and runtime guards for tool-calling agents.

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## PUBLICATIONS

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- 2026 [1] **Minseok Kim**, Hyungjoon Koo. “Security of Autonomous AI Agents: Trust Boundary-Based Attack Surface Analysis and Trends.” *Review of KIISC*, Vol. 36, No. 2, 2026.

2025

- [1] Jiyong Uhm, **Minseok Kim**, Michalis Polychronakis, Hyungjoon Koo. “Fool Me If You Can: On the Robustness of Binary Code Similarity Detection Models against Semantics-preserving Transformations.” *FSE'26 (to appear)*, 2025.
- [2] **Minseok Kim**, Hyungjoon Koo. “LLM-Based Drug Term Detection in Korean Messenger Conversations.” *J. Korea Inst. Inf. Security & Cryptology, Vol. 35, No. 6*, 2025.
- [3] Giuk Kwon, **Minseok Kim**, Hyungjoon Koo. “Analysis of Watermarking for AI-generated Text.” *CISC-W'25*, 2025.
- [4] **Minseok Kim**, Hankook Lee, Hyungjoon Koo. “Rescuing the Unpoisoned: Efficient Defense against Knowledge Corruption Attacks on RAG Systems.” *ACSAC'25*, 2025.
- [5] Zhang Yiyue, **Minseok Kim**, Hyungjoon Koo. “Bridging Models and Agents: Protocol Architectures and Security in MCP & A2A.” *CISC-S'25*, 2025.

2024

- [1] **Minseok Kim**, Hyungjoon Koo. “Trends in Attacks and Defenses against Retrieval-Augmented Generation (RAG) Systems.” *CISC-W'24*, 2024.

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