Nov 2026

Jimin Lee

lee@lastdance.kr | Homepage | GitHub

Research Interests

I am interested in everything AI can do, starting with cybersecurity: leveraging LLMs for security, digital forensics, threat detection, and integrating AI into cyber defense strategy.

Education

Sejong University — Seoul, Korea
Dept. of Cyber Defense · Army contract program · Military Outstanding Talent Scholarship — Mar 2025 – Present

Inha University — Incheon, Korea
Dept. of Smart Mobility Engineering · Four-year full scholarship — 2024 –

Experience

CYAI LAB
Lab Manager — Apr 2025 – Jun 2026

Publications

(J: journal, D: domestic conference)

International Publications

J2 *Multi-Strategy RAG with ATT&CK STIX Metadata-Enriched Embeddings for Technique Extraction*
J. Lee, K. Kim, K. You, and C. Choi
IEEE Access (Early Access), Sep 2026.

J1 *MuCamp2: Generating Validated Cyber Campaign Variants via Constrained LLMs for Group Attribution*
K. Kim, **J. Lee**, I. Lee, I. Han, J. Lee, S. Shim, and C. Choi
IEEE Access, Jan 2026.

Domestic Publications (Korean)

D5 M. Kim, J. Byun, K. Kim, S. Cho, **J. Lee**, I. Han, S. Park, T. Kim, and C. Choi, "Agentic AI-based Anomaly Behavior Detection Method," in Proc. of the KSII Spring Conference 2026, Vol. 27, No. 1. (Outstanding Paper Award)

D4 K. You, Y. Ahn, S. Cho, **J. Lee**, and C. Choi, "Automated Penetration Testing Simulation with LLM-based Attack Technique Self-Recovery," in Proc. of the KSII Spring Conference 2026, Vol. 27, No. 1.

D3 **J. Lee**, K. You, S. Ryu, and C. Choi, "Dialectical Multi-Persona RAG-LLM for Automated Attack Technique Analysis in Cyber Threat Reports," in Proc. of the KSII Fall Conference 2025, Oct 2025.

D2 K. You, **J. Lee**, S. Ryu, and C. Choi, "LLM-based Attack Behavior Sequence Recovery Technique," in Proc. of the KSII Fall Conference 2025, Oct 2025.

D1 S. Ryu, K. You, **J. Lee**, and C. Choi, "Multi-LLM Consensus-Based Cyber Attack Pattern Prediction Technique," in Proc. of the KSII Fall Conference 2025, Oct 2025.

Honors and Awards

- Finalist — 2026.10.28 – 11.25
  LOTTE AX Challenge 2026
- Finalist · 4th in qualifier — 2026.10.31 – 12.02
  2026 AI Cyber Defense Contest (ACDC) · Team 자퇴할게요 · Team leader

- Excellence Award 2026.06.25
  14th Sejong University SW·AI Hackathon · Team 딸깍 · Team leader
- 1st Prize (최우수상) · 2nd overall 2026.06.19 – 07.03
  HSPACE Digital Forensics Challenge (HDFC 2026) · Team 이라덴
- Grand Prize (1st place) 2026
  2026 AI·SW-Centered University Digital Competition, Sejong Qualifier · Team 사이버국방학과 · Team leader
- Outstanding Paper Award Spring 2026
  KSII Spring Conference 2026, Vol. 27, No. 1
- Gold Award 2025.12.24
  13th Sejong University SW·AI Hackathon · Team leader
- Grand Prize 2025
  3rd Information Security Academic Festival · Project Division · Team leader
- Grand Prize 2025
  3rd Information Security Academic Festival · Paper Division
- Grand Prize 2025
  Sejong University Academic Advising Essay Contest

Vulnerability Disclosures

- 41 vulnerabilities reported to KISA KVE (Korea Vulnerability Enumeration) 2025 – 2026
  24 resolved, 17 in progress (KVE-2025-0788 and others)

Projects

SejongUnivMobile 2025 – 2026

- An unofficial integrated mobile super app for Sejong University student life. It streamlines electronic attendance, mobile student ID, timetable, reading-room status, facility reservation, community, school notices, and personalized academic menus into one cleaner flow. It grew out of a 2025-2 hackathon prototype, was developed through the 2026-1 Creative Semester program, and was released on Google Play under the name “세종대역”.

Bluetooth Beacon Attendance Spoofing via Raspberry Pi 5 2025

- A Bluetooth beacon cloning system built on a Raspberry Pi 5 to demonstrate vulnerabilities in attendance-check systems. All findings were responsibly reported to the university.

Sejong University Next-Gen AI Chatbot 2025 – Present

- An AI chatbot for Sejong University built on RAG (Retrieval-Augmented Generation), providing up-to-date answers on university regulations, announcements, course catalogs, and more. Selected as an official Sejong University Creative Semester project and under active development.

Workshops and Programs

- DevDay Exchange Community Hackathon : Seoul 2026.10.09
  Codex Community Events · Sponsored by OpenAI · AWS
- Advanced AI Digital Medical Product Red Team Challenge & Technical Workshop 2025.09.04 – 09.05
  Ministry of Food and Drug Safety (MFDS)

Skills

- **Languages**: Python, C — and any language as long as there's an LLM
- **Security**: Android security, APT tracking, offensive & defensive security
- **Tools**: IDA Pro, Ghidra — and anything with MCP attached
- **Platforms**: Linux, Windows, Proxmox