

Jin Heo

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RESEARCH INTERESTS

ML Systems, Operating Systems, System Security

EDUCATION

KAIST

M.S. in AI Computing

Daejeon, Republic of Korea

Sep 2026 –

Korea University, Seoul, South Korea

B.S. in Cyber Defense, GPA : 4.28/4.5

Seoul, Republic of Korea

Mar 2022 – Feb 2026

RESEARCH EXPERIENCE

• Computer Architecture and Systems Lab, KAIST

Undergraduate Research Assistant (Advisor: Prof. Youngjin Kwon)

Daejeon, Republic of Korea

Jun 2025 – Aug 2026

- ML Systems for LLMs: Studying parallelism strategies (data, tensor, pipeline, and expert parallelism) for large-scale LLM and MoE training, and memory management techniques for sparse attention in LLM inference
- eBPF Scalability: Researching techniques to extend the scalability of eBPF in the Linux kernel, focusing on applying eBPF to accelerate memory system performance through page fault optimization and exploring safe, efficient kernel extensions

• Computer Systems Security Lab, Korea University

Undergraduate Research Assistant (Advisor: Prof. Youngjoo Shin)

Seoul, Republic of Korea

Mar 2024 – Jun 2025

- System Security: Researching a secure allocator resilient to Use-After-Free vulnerabilities in low-level programming languages
- Cloud Security: Investigating privilege escalation and resource exhaustion attacks in cloud environments through container escape techniques

EXTRACURRICULAR ACTIVITIES

• CyKor, Cyber security research team of Korea University

Mar 2024 – Feb 2026

- Conducted research on system and web security and participated in security competitions (CTF)

TECHNICAL SKILLS

Languages: C/C++, Python, CUDA

Systems: Linux Kernel (Code Modification), eBPF

Vulnerability Research: Pwnable