Jinseo Lee

Personal Data

Place and Date of Birth:	Republic of Korea | 08 February 2002
Address:	27, Eoeun-ro 42beon-gil, Yuseong-gu, Daejeon, 34139, Republic of Korea
Email:	jinseo.vik.lee@kaist.ac.kr
Website:	allgot.github.io

Research Interests

Network Security, Network Privacy, Internet Measurement, Censorship, Surveillance

Education

Korea Advanced Institute of Science and Technology (KAIST), Daejeon, Republic of Korea

Ph.D. in Computer Science — Feb 2025– (Expected)
M.S. in Computer Science — Aug 2023–Feb 2025 (Expected)
- Advisor: Prof. Min Suk Kang
- Master Thesis: *Measuring DNS-over-HTTPS Downgrades: Prevalence, Techniques, and Bypass Strategies*

B.S. in Computer Science — Feb 2019–Aug 2023
- Double Major in Business and Technology Management
- *Latin Honors: Cum Laude*

Awards and Honors

Inseong Scholarship — Jan 2025

Outstanding Poster — Nov 2024
5th place at the 2024 Security@KAIST Fair

KAIST Full Scholarship for Graduate Program — Aug 2023–Feb 2025 (Expected)
Government-Sponsored Scholarship

KAIST Full Scholarship for Undergraduate Program — Feb 2019–Aug 2023

Referred Publication

[1] **Jinseo Lee**, Hobin Kim, and Min Suk Kang. 2025. Onions Got Puzzled: On the Challenges of Mitigating Denial-of-Service Problems in Tor Onion Services. In *Proceedings of the 34th USENIX Security Symposium*, **USENIX Security** '25, 19 pages, Berkeley, CA, USA. USENIX Association.

[2] **Jinseo Lee**, David Mohaisen, and Min Suk Kang. 2024. Measuring DNS-over-HTTPS Downgrades: Prevalence, Techniques, and Bypass Strategies. *Proc. ACM Netw.* 2, **CoNEXT**4, Article 28 (December 2024), 22 pages. https://doi.org/10.1145/3696385

Research Projects

Aug 2023–Current	**Tor Vulnerability** We discovered a serious Denial-of-Service (DoS) vulnerability in Tor client puzzles and are collaborating with the Tor developers to address it. Advisor: Prof. Min Suk Kang Cooperated with Hobin Kim and JongKook Han
Jan 2023–June 2024	**Downgrades of DNS-over-HTTPS** We measured the current status of DNS-over-HTTPS downgrades worldwide, uncovering their prevalence, techniques, and bypass strategies. Advisor: Prof. Min Suk Kang Cooperated with Prof. David Mohaisen
Mar 2023–May 2023	**Qualcomm-KAIST Innovation Awards 2023** We participated in the Qualcomm-KAIST Innovation Award 2023, a hackathon aimed at developing a reliable machine learning model to predict the Myers-Briggs Type Indicator (MBTI) of individuals using only the questions and corresponding answers. The source code and report for this project are available on GitHub. Cooperated with Seogyeong Jeong and Joohee Kim
Oct 2022–Dec 2022	**DUDE (DUplication DEtector)** We developed a GitHub Action designed to detect duplicate GitHub issues and notify their respective authors. You can find it on the GitHub Marketplace. Advisor: Prof. Kihong Heo
Mar 2022–June 2022	**Improved DialogueRNN: Dealing with Emotional Shift** We conducted research on emotion detection using artificial intelligence, which exhibited subpar performance when analyzing dialogues with rapid changes in emotion. We identified this challenge as the *emotional shift problem* and proposed a solution to address it, resulting in enhanced performance. Cooperated with Darae Lee, Jonghee Jeon, and Joohee Kim

Leadership Experience

Graduate Student Representative — Aug 2023–February 2024
KAIST School of Computing

Representative — Sep 2022–Jun 2023
KAIST Catholic Student Union Sanarae

Standing Committee — Apr 2021–Dec 2021
Daejeon Catholic Council of University Students

Executive — Sep 2019–Dec 2020
KAIST Catholic Student Union Sanarae

Skills

Programming Languages	Beginner:	Rust, Java
	Intermediate:	OCaml
	Advanced:	C, C++, Python
Languages	Korean:	Native
	English:	Professional Working Proficiency
	Norwegian:	Elementary Proficiency