# Jinseo Lee

## Personal Data


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|---|---|
| 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 & privacy; anonymity networks; Internet measurements; censorship & surveillance

## Education

**KAIST**, Daejeon, Republic of Korea

Ph.D. in Computer Science — Feb 2025–
M.S. in Computer Science — Aug 2023–Feb 2025
- 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

**Award for Ambitious Failure** — Feb 2025
Awarded by the president of KAIST

**Inseong Scholarship** — Jan 2025

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

**KAIST Full Scholarship for Graduate Program** — Aug 2023–
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* (Seattle, WA, USA) *(**USENIX Security** '25)*. USENIX Association, Berkeley, CA, USA, 19 pages.

[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

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|---|---|
| Aug 2023–Current | **Tor Vulnerability**<br>We discovered a serious Denial-of-Service (DoS) vulnerability in Tor client puzzles and are collaborating with the Tor developers to address it.<br>Advisor: Prof. Min Suk Kang<br>Cooperated with Hobin Kim and JongKook Han |
| Jan 2023–June 2024 | **Downgrades of DNS-over-HTTPS**<br>We measured the current status of DNS-over-HTTPS downgrades worldwide, uncovering their prevalence, techniques, and bypass strategies.<br>Advisor: Prof. Min Suk Kang<br>Cooperated with Prof. David Mohaisen |
| Mar 2023–May 2023 | **Qualcomm-KAIST Innovation Awards 2023**<br>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.<br>Cooperated with Seogyeong Jeong and Joohee Kim |
| Oct 2022–Dec 2022 | **DUDE (DUplication DEtector)**<br>We developed a GitHub Action designed to detect duplicate GitHub issues and notify their respective authors. You can find it on the GitHub Marketplace.<br>Advisor: Prof. Kihong Heo |
| Mar 2022–June 2022 | **Improved DialogueRNN: Dealing with Emotional Shift**<br>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.<br>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

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