Inyeong Jang

726iy@duksung.ac.kr | GitHub | Portfolio

Education

- Duksung Women's University, Seoul, Korea

  B.S. in Computer Science, Engineering and Converged Technology

  Mar. 2023 – Present

  GPA: 4.41/4.5

Research Interests

- Automated Program Repair (APR)
- Software Testing and Verification
- Software Security

Publications

1. **Improving Automated Patch Correctness Assessment by Designing LLM-Based Oracles** [Paper]
   Inyeong Jang, Jinyoung Kim.
   IEEE International Conference on Software Testing, Verification and Validation (ICST), 2026.
   (Research Track, accepted)

2. **AutoFiC: An LLM-based Automated Security Patch Generation Pipeline.** [Paper]
   Inyeong Jang, Jeongmin Oh, Minchae Kim, Eunsol Kim.
   Korea Conference on Software Engineering (KCSE), 2026. (Oral Presentation)

3. **SCSC: Supply Chain Security Cross-reference Framework and Platform Proposal.** [Paper]
   HaKyeong Choi, Yeseo You, **Inyeong Jang**, Hyein Lee.
   Conference on Information Security and Cryptography (CISC). Winter, 2025. (Poster)

Research Projects

- **AutoFiC: LLM-based Automated Security Patch Pipeline** [Page] [GitHub]

  End-to-end pipeline integrating SAST-based vulnerability detection, LLM-based patch generation, and automated pull request creation for open-source projects.

- **AI-based OpenStreetMap (OSM) Vandalism Detection** [GitHub]

  Graph-based and LightGBM models for detecting malicious edits in OpenStreetMap.

Awards

- **Best Undergraduate Paper Award,** Korea Conference on Software Engineering (KCSE), 2026

- **Academic Excellence Scholarship**, Duksung Women's University, Spring 2023 – Fall 2024