Jaeho Kim

MASTER STUDENT

Korea Advanced Institute of Science and Technology

■ oojahooo@gmail.com | 🏠 jaeho.pl | 🖸 oojahooo

Education

Korea Advanced Institute of Science and Technology

Daejeon, Korea

M.S. in Computer Science

Sep. 2022 - Current

• Thesis: Patch Transplantation by Syntactic and Semantic Pattern Matching (TBD)

· Advisor: Kihong Heo

Korea University Seoul, Korea

B.S. in Computer Science Mar. 2018 - Aug. 2022

• **GPA:** 4.09/4.5

• Thesis: VeriPy: An Automatic Verifier for Proving Correctness of Programs

• Advisor: Hakjoo Oh

Korea Science Academy of KAIST

Busan, Korea

High School Diploma Mar. 2015 - Feb. 2018

Research Experience_

Korea Advanced Institute of Science and Technology

Daejeon, Korea

Undergraduate Research Intern

Jun. 2021 - Aug. 2022

Dec. 2019 - Jun. 2021

• Fault localization using Bayesian Networks

• Advisor: Kihong Heo

Korea University Seoul, Korea

Undergraduate Research Intern

Verifying correctness of Python programs using SMT solver

Advisor: Hakjoo Oh

Publications

Conference Proceedings

• Jongchan Park, Jaeho Kim, Tae Eun Kim, and Kihong Heo, "Differential Fault Localization using Bayesian Networks," in Proceedings of the Korean Information Science Society Conference, 2022, pp. 1239-1241.

Projects ____

Haechi: Static/Dynamic Analyzer for LLVM IR

Daejeon, Korea

Korea Advanced Institute of Science and Technology

Dec. 2022 - Current

- I designed and implemented a static/dynamic analyzer for LLVM IR with my laboratory members.
- Especially, I designed abstract domain and abstract semantics for LLVM IR.

Teaching Experience

Teaching Assistant

- · CS348: Information Security, Spring 2023, KAIST
- CS966: KAIST SoC Colloquium, Spring 2023, KAIST
- COSE102: Computer Programming, Fall 2020, Korea University

Skills

Technical Program Analysis, Program Verification, Progarm Synthesis, SMT-based Reasoning.

Programming Python, C/C++, OCaml.

Miscellaneous LLVM, Z3, Linux, Shell (Bash/Zsh), MFX.

March 1, 2024