JUYEON YOON

PhD Candidate, *School of Computing* in KAIST

⌂ https://coinse.io/members/juyeon

○ https://github.com/greenmonn

EDUCATION

KAIST, Daejeon   *March 2022 - Current*
PhD Candidate of Computer Science

KAIST, Daejeon   *March 2020 - February 2022*
Master of Computer Science

KAIST, Daejeon   *March 2014 - February 2020*
Bachelor of Computer Science

RESEARCH INTEREST

Automated Test Generation, GUI Testing, Software Engineering with Natural Language Processing
With the belief that filling the gap between academic findings and industrial practice is a valuable research problem, I am mostly interested in connecting automated techniques with practical situations in software engineering.

PUBLICATIONS

Peer-Reviewed Conference and Workshop Papers

*: equal contribution

- Gabin An*, **Juyeon Yoon***, Jeongju Sohn, Jingun Hong, Dongwon Hwang, and Shin Yoo. Automatically Identifying Shared Root Causes of Test Breakages in SAP HANA. In *Proceedings of the 44th International Conference on Software Engineering: Software Engineering in Practice (ICSE-SEIP 2022)*, 2022

- **Juyeon Yoon**, Seungjoon Chung, Kihyuck Shin, Jinhan Kim, Shin Hong, and Shin Yoo. Repairing Fragile GUI Test Cases Using Word and Layout Embedding. In *2022 IEEE Conference on Software Testing, Verification and Validation (ICST 2022)*, 2022

- **Juyeon Yoon** and Shin Yoo. Enhancing Lexical Representation of Test Coverage for Failure Clustering. In *2021 36th IEEE/ACM International Conference on Automated Software Engineering Workshops (ASEW 2021)*, 2021

- Gabin An, **Juyeon Yoon**, and Shin Yoo. Searching for Multi-fault Programs in Defects4J. In *Search-Based Software Engineering: 13th International Symposium (SSBSE 2021)*, 2021

- Junghyun Lee, Chani Jung, Yoo Hwa Park, Dongmin Lee, **Juyeon Yoon**, and Shin Yoo. Preliminary Evaluation of SWAY in Permutation Decision Space via a Novel Euclidean Embedding. In *Search-Based Software Engineering: 13th International Symposium (SSBSE 2021)*, 2021

- Mookeun Ji, **Juyeon Yoon**, Jeongwoo Choo, Minki Jang, and Anthony Smith. LoRa-based Visual Monitoring Scheme for Agriculture IoT. In *2019 IEEE Sensors Applications Symposium (SAS 2019)*, 2019

- Gunwoo Kim, **Juyeon Yoon**, Chunjong Park, Juho Kim, Dongman Lee, and Sung-Ju Lee. Context-Aware Notification System on Social Settings. In 한국정보과학회 학술발표논문집 *(KSC 2017)*, 2017

Book Chapter

- 과학하는 용기 (Courage To Do Science). Salim Friends, 2016

WORKING EXPERIENCE

Artifriends Inc.   June 2017 - December 2018
Web/Blockchain Developer

· As a member of an early start-up company, I led the development of a web service for asset management, and participated in building a Blockchain client software based on Proof-of-Stake consensus algorithm.

SK Hynix   June 2016 - July 2016
Application Engineering Intern

· Assigned to an Application Engineering department, I briefly learned about testing SSD (Solid State Drive) hardware by detecting anomalous packets observed in SATA command layer protocol.

TECHNICAL STRENGTHS

Programming Language	Python, JavaScript, Golang, Java
Tools	Git, Docker

HONORS & AWARDS

Google Women Techmakers Scholarship   2019
· Selected as a recipient of 2019 APAC Women Techmakers Scholars Program

Dean's List   Autumn 2016
· Top 3% Academic Performance

TEACHING EXPERIENCE

CS454: AI Based Software Engineering   Autumn 2020
Teaching Assistant

· A course about metaheuristic optimisation algorithms for software engineering

CS101: Introduction to Programming   Spring 2020 - Spring 2022
Teaching Assistant

· A course for freshmen to teach programming skills and computational thinking

ACTIVITIES

VOK: Voice of KAIST
· Worked as an announcer in KAIST official broadcasting club