

JUYEON YOON

PhD Candidate, *School of Computing* in KAIST

🏠 <http://greenmon.dev>

🔗 <https://github.com/greenmonn>

EDUCATION

KAIST, Daejeon

PhD Candidate of Computer Science

March 2022 - Current

KAIST, Daejeon

Master of Computer Science

March 2020 - February 2022

KAIST, Daejeon

Bachelor of Computer Science

March 2014 - February 2020

RESEARCH INTEREST

Automated Test Generation, GUI Testing, Software Engineering with Natural Language Processing

I believe that filling the gap between research and industrial practice is also a valuable research problem.

In this respect, my recent interest is improving maintainability and readability of automatically generated tests by adapting natural language processing techniques for source code.

PUBLICATIONS

Automatically Identifying Shared Root Causes of Test Breakages in SAP HANA2

Gabin An*, **Juyeon Yoon***, Jeongju Sohn, Jingun Hong, Dongwon Hwang, Shin Yoo

ICSE 2022 (SEIP)

Repairing Fragile GUI Test Cases Using Word and Layout Embedding

Juyeon Yoon, Seungjoon Chung, Kihyuck Shin, Jinhan Kim, Shin Hong, Shin Yoo

ICST 2022 (Industry Track)

Enhancing Lexical Representation of Test Coverage for Failure Clustering

Juyeon Yoon, Shin Yoo

NLP-SEA 2021 (ASE Workshop)

Searching for Multi-fault Programs in Defects4j

Gabin An, **Juyeon Yoon**, Shin Yoo

SSBSE 2021

Preliminary Evaluation of SWAY in Permutation Decision Space via a Novel Euclidean Embedding

Junghyun Lee, Chani Jung, Yoo Hwa Park, Dongmin Lee, **Juyeon Yoon**, Shin Yoo

SSBSE 2021

DNN Model Deployment on Distributed Edges

Eunho Cho*, **Juyeon Yoon***, Jeongju Sohn, Jingun Hong, Dongwon Hwang, Shin Yoo

BECS 2021 (ICWE Workshop)

WORKING EXPERIENCE

Artifriends Inc.

Web/Blockchain Developer

June 2017 - December 2018

- Main developer of an asset management web service (Average 500 sessions per a day)
- Participated in building a Blockchain client software based on Proof-of-Stake consensus algorithm

SK Hynix

June 2016 - July 2016

Application Engineering Intern

- Learned about testing SSD hardware by detecting anomalous packets in SATA command layer protocol

TECHNICAL STRENGTHS

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

HONORS & AWARDS

COSMOS Hackerthon (HackAtom) 3rd Prize	2019
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- Implemented a p2p charity application based on Cosmos SDK and mobile web interface

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

KAIST Writing Contest	2016
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- Published as a series of KAIST, *"Courage of Being a Scientist"*

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

TEACHING EXPERIENCE

CS454: AI Based Software Engineering	Autumn 2020
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Teaching Assistant

- A course about metaheuristic optimisation algorithms for software engineering

CS101: Introduction to Programming	Spring 2020 - Spring 2022
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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