

Hyunjae Suh

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Summary

Ph.D. student specializing in software engineering with a focus on code generated by large language models. Experienced in conducting in-depth research to enhance understanding and improve the quality of LLM-generated source code.

Education

University of California, Irvine
Ph.D. in Software Engineering

Irvine, CA
Sep 2023 – Present

Kookmin University
BS in Computer Science

Seoul, South Korea
Mar 2017 – Aug 2023

Experience

Ph.D. Student
University of California, Irvine

Irvine, CA
Sep 2023 – Present

- Conducted research in software engineering with an emphasis on LLM-generated source code.
- Investigated key characteristics of LLM-generated source code, including its accessibility and similarity to human-written code.

Graduate Research Assistant
Ebay

Remote
Aug 2023 – Dec 2023

- Worked on automated commit message generation using open-source LLMs.
- Optimized the use of LLMs to streamline automated commit message generation.

Publications

An Empirical Study on Automatically Detecting AI-Generated Source Code: How Far Are We?

Hyunjae Suh, Mahan Tafreshipour, Jiawei Li, Adithya Bhattiprolu, Iftexhar Ahmed

Accepted at the 47th IEEE/ACM International Conference on Software Engineering [ICSE 2025]

Does the Order of Fine-tuning Matter and Why?

Qihong Chen, Jiawei Li, **Hyunjae Suh**, Lianghao Jiang, Zheng Zhou, Jingze Chen, Jiri Gesi, Iftexhar Ahmed

<https://arxiv.org/abs/2410.02915> [↗](#)

Projects

Detection of LLM-generated Source Code

- Proposed techniques that include fine-tuning LLMs, leveraging embeddings, and analyzing code features to accurately identify LLM-generated code.
- Improved the detection of LLM-generated source code, achieving an F1-score of 82.55.
- Research paper accepted for publication at ICSE 2025.

Accessibility of LLM-generated Source Code

- Evaluated the accessibility of source code generated by LLMs in the web domain.
- Applied prompting techniques to generate code with LLMs, resulting in enhanced accessibility.
- Utilized accessibility evaluation tools to assess and ensure compliance with WCAG 2.1 guidelines.

The impact of Fine-tuning Order on Language Models for Software Engineering

- Developed machine learning pipelines for fine-tuning transformers with various combinations of software engineering tasks.
- Evaluated the impact of fine-tuning order on final task performance.

Teaching Experience

University of California, Irvine

Teaching Assistant

Irvine, CA

Sep 2023 – Present

- IN4MATX 115 - Software Testing, Analysis, and Quality Assurance
- ICS 10 - How Computers Work
- ICS 32 - Programming with Software Libraries