JUNWEN AN

Github ◇ LinkedIn ◇ Homepage

EDUCATION

National University of Singapore — Aug. 2024 - Present
Ph.D. in Computer Science — *Singapore*
Focus: Software Engineering, Databases, LLMs
Advisor: Prof. Manuel Rigger
Additional Training: Summer Workshop on AI/ML for FinTech, 2022

University of Notre Dame — Aug. 2023 - Dec. 2023
Exchange Student — *Notre Dame, IN*
Advisor: Prof. Toby Jia-jun Li

Southern University of Science and Technology — Sept. 2020 - Jun. 2024
B.Eng. in Computer Science and Technology — *Shenzhen, China*
GPA: 3.86/4.00 (Top 5%) — *Outstanding Graduate Award*
Advisor: Prof. Yuqun Zhang

RESEARCH EXPREIENCE & PUBLICATIONS

2. **[ICSE'24]** Ling Jiang, **Junwen An**, Huihui Huang, Qiyi Tang, Sen Nie, Shi Wu, and Yuqun Zhang. *"BinaryAI: Binary Software Composition Analysis via Intelligent Binary Source Code Matching"*. [paper]

1. **[ICSE'24 Demo]** Ningzhi Tang*, **Junwen An***, Meng Chen, Aakash Bansal, Yu Huang, Collin McMillan, and Toby Jia-Jun Li. *"CodeGRITS: A Research Toolkit for Developer Behavior and Eye Tracking in IDE"*. [paper] [website]

INDUSTRY EXPERIENCE

IDEA (International Digital Economy Academy) — Jan. 2024 - Apr. 2024
Programming Language and Developer Tools Intern — Shenzhen, China

- Synthesized over 1,000 training samples from high-resource languages for the MoonBit programming language.
- Designed and deployed an LLM fine-tuning pipeline for MoonBit, enabling model adaptation.
- Developed token backtracking techniques for LLM inference, improving the syntactic correctness of generated MoonBit programs.

ACTIVITIES

Teaching Assistant — NUS & SUSTech (2022 - 2025)

- CS3213: Foundations of Software Engineering, NUS *(Head TA)* — Spring 2026 (Expected)
- CS6223: Advanced Topics in Software Testing, NUS — Fall 2025
- CS3213: Foundations of Software Engineering, NUS — Spring 2025
- CS202: Computer Organization, SUSTech — Spring 2023
- CS207: Digital Logic, SUSTech *(Awarded Outstanding Teaching Assistant)* — Fall 2022

Academic Services

- Program Committee: SIGMOD'25 Artifact Evaluation
- Student Volunteer: OOPSLA'25

Competitions

- Student Research Competition at OOPSLA'25
- JetBrains Research Context Collection Competition at ASE'25 *(5th place)*