

Tianyu Li

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Education

- National University of Singapore (NUS), School of Computing
(Third year) Ph.D. in Computer Science, Aug 2023 – Present
 - Research Areas: Automatic Code Generation, Programming Languages
 - Advisors: Prof. Umang Mathur & Prof. Prateek Saxena
- Zhejiang University (ZJU), College of Computer Science & Technology
B.Eng. in Software Engineering, Sept 2019 – Jun 2023

Technical Skills

- Programming Languages: Python, Rust, C
- Frameworks & Tools: Tree-sitter, LLVM, Flask
- Concepts: Code Translation, Programming Logic

Publications

1. [co-first][PLDI 2025] Program Skeletons for Automated Program Translation
Bo Wang, **Tianyu Li (co-first)**, Ruishi Li, Umang Mathur, Prateek Saxena
ACM SIGPLAN Conference on Programming Language Design and Implementation
2. [NDSS 2025] Translating C To Rust: Lessons from a User Study
Ruishi Li, Bo Wang, **Tianyu Li**, Prateek Saxena, Ashish Kundu
Network and Distributed System Security (NDSS) Symposium
3. [co-first][SIGMOD 2025] SPAS: Continuous Release of Data Streams under w-Event DP
Xiaochen Li, **Tianyu Li (co-first)**, Yitian Cheng, Chen Gong, Kui Ren, Zhan Qin, Tianhao Wang
International Conference on Management of Data
4. [MobiCom 2023] MagTracer: Detecting GPU Cryptojacking via Magnetic Signals
Rui Xiao, **Tianyu Li**, Soundarya Ramesh, Jun Han, and Jinsong Han
International Conference on Mobile Computing and Networking

Teaching:

- TA for CS4211-Formal Method for SE - 2025 Semester 2
- TA for CS5531-Web Security - 2024 Semester 2