

# Tianyu Li

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☎ +86 19858178462 | +65 86579139

✉ tianyuli@u.nus.edu

## Education

- National University of Singapore (NUS), School of Computing  
(Second 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: LLVM, Flask, Tree-sitter
- Concepts: Differential Privacy, Compiler Design, Programming Logic, LLM

## 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  
Differential Privacy  
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 Attacks via Magnetic Leakage  
Signals  
Rui Xiao, **Tianyu Li**, Soundarya Ramesh, Jun Han, and Jinsong Han  
International Conference on Mobile Computing and Networking

## Teaching:

- TA for CS5531- Web Security - 2024 Semester 2