YIBO DONG

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👥 WORK EXPERIENCE

IVerifier: Formal Verification of Interlocking System   June. 2022 – Present

Product Manager   Shanghai Trusted Industrial Platform, China

Brief Introduction: responsible for leading the team in the developing of the tool.

- Refactored Core model-checkers.
- Performance Optimized by 80%.
- Complete the delivery acceptance for major clients.

Certify: Static Analysis of C programs   July. 2021 – May. 2022

Software Engineer   Shanghai Trusted Industrial Platform, China

Brief introduction: responsible for developing the tool.

- Implemented static analysis of C code based on the MISRA-C standard.
- Implemented static analysis for runtime errors in C code.

🎓 EDUCATION

East China Normal University (ECNU), Shanghai, China   2022 – Present

Master student in Software Enginerring (EE), expected June 2025.

Shanghai Jiao Tong University (SJTU), Shanghai, China   2017 – 2021

B.S. in Information Security, Electronic and Information Science.

⚙ PUBLICATIONS

LightF3: A Lightweight Fully-Process Formal Framework for Automated Verifying Railway Interlocking Systems   July. 2023

First Author We proposed LightF3, a formal framework for verifying railway interlocking systems and evaluated it with real station instances from our industrial partner, demonstrating its effectiveness.

♡ HONORS AND AWARDS

M Prize(Top 10%), The Mathematical Contest in Modeling   April. 2019
1st Prize, Shanghai Jiao Tong University Engineering Mindset Competition   Oct. 2019

ⓘ MISCELLANEOUS

- GitHub: https://github.com/sjtu019
- Languages: English - Fluent, Mandarin - Native speaker
- Volunteer Work: ShangHai Marathon Volunteer