

# LINKE LI

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## RESEARCH INTERESTS

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Having focused on compiler security, I now aspire to broaden my expertise by researching diverse aspects of software security. My goal is to contribute innovative solutions that safeguard software systems comprehensively.

## EDUCATION

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**Nanjing University** *2021-2024*

Master Student in Computer Science, advisor : Professor Bing Mao

**Xi'an Jiaotong University** *2017-2021*

Bachelor's Degree in Computer Science

GPA:3.57(86.35/100)

## PROJECTS

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**Compiler Introduced Vulnerabilities Detection** May 2022 - July 2023

- We propose a novel detection technique based on LLVM's debug information system, which can efficiently identify security vulnerabilities introduced by compilers in the target program before and after compiler optimization.

**Study of Compiler Introduced Security Bugs** September 2021 - February 2022

- We perform a comprehensive study on compiler-introduced security bugs(CISB) and their root causes. We collect a large set of CISB in the wild by manually analyzing 4,827 potential bug reports of the most popular compilers (GCC and Clang), distilling them into a taxonomy of CISB.

## PUBLICATIONS

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**Cross-Version Detection for Compiler-Introduced Vulnerabilities**

- Jianhao Xu, **Linke Li**, Kunbo Zhang, Bing Mao
- Submitted to Journal of Software(In Chinese)

**Silent Bugs Matter:A Study of Compiler-Introduced Security Bugs**

- Jianhao Xu, Kangjie Lu, Zhengjie Du, Zhu Ding, **Linke Li**, Qiushi Wu, Mathias Payer, Bing Mao
- In Proceedings of The 32nd USENIX Security Symposium (Security'23).

## ACHIEVEMENTS

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Second Prize in College Student Mathematical Contest(Non-Mathematics Category) *December 2020*

Excellent Student of Xi'an Jiaotong University *November 2019*

First Prize in Xi'an Jiaotong University Mathematical Modeling Competition *May 2019*

Third Prize Scholarship of Xi'an Jiaotong University *2018,2019,2020*

## SKILLS

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**Programming**

C/C++, Python, LLVM, Static analysis

**Tools**

ghidra, git, Docker