

# Bailin Li

REVERSE ENGINEER · VULNERABILITY RESEARCHER

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## Summary

I am an experienced reverse engineer and vulnerability researcher. I have deep knowledge of how softwares work under UNIX and Windows and love playing cybersecurity Capture-The-Flag competitions. I am familiar with techniques of cyber-attack, penetration testing and relevant analysis toolings. Nothing excites me more than solving complex problems in software systems with a team of like-minded people.

## Education

### NUS(National University of Singapore)

B.S. IN COMPUTER SCIENCE

Singapore

Aug. 2020 - May. 2024

- GPA: 4.95 / 5.0. Dean's List (all semesters)

### NUS(National University of Singapore)

DIPLOMA - DISTINCTION

Singapore

Jan. 2012 - Dec. 2017

- President of Hwa Chong Infocomm and Robotics Society 2016-2017. Led and developed the cybersecurity wing.
- Awarded Tooh Fee San All-Round Excellence Award (ARE) in 2016.
- Awarded EAGLES award (Service) in 2017 for community service.

## Work Experience

### STAR Labs

N-DAY VULNERABILITY RESEARCHER INTERNSHIP

Singapore

Mar. 2020 - Jun. 2020

- Disassemble and analyze network / IOT device firmware.
- Discover and report 3 vulnerabilities in Singtel Mesh Nodes. CVE-2020-15357, CVE-2020-25545 and CVE-2020-25546.
- Reverse engineer and exploit VirtualBox display driver emulator.
- Use Qiling framework and AFL for emulated closed source binary fuzzing.

## Honors & Awards

### NATIONAL COMPETITIONS

- |      |   |           |
|------|---|-----------|
| 2020 | <b>1st runner up</b> , STACK the Flags - Capture The Flag           | Singapore |
| 2020 | <b>personal 7th</b> , The InfoSecurity Challenge (TISC)             | Singapore |
| 2020 | <b>1st Runner up</b> , Brainhack - Capture The Flag                 | Singapore |
| 2019 | <b>1st Runner up</b> , Brainhack - Capture The Flag                 | Singapore |
| 2017 | <b>Champion</b> , Cross CTF   | Singapore |
| 2017 | <b>Champion</b> , Cyber Defenders Discovery Camp - Capture The Flag | Singapore |
| 2016 | <b>Champion</b> , Cyber Defenders Discovery Camp - Capture The Flag | Singapore |

## Skills

<b>Cybersecurity</b>	Reverse Engineering, Binary Exploitation, Penetration Testing, Web hacking
<b>Programming</b>	C / C++, Assembly, Node.js, Python, JAVA, Haskell
<b>Back-end</b>	Express, Django, REST API
<b>Front-end</b>	Hugo, Redux, React, HTML5
<b>Languages</b>	Mandarin, English