

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 UNIX and Windows softwares 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)

Hwa Chong Institution

DIPLOMA - DISTINCTION

Singapore

Jan. 2012 - Dec. 2017

- As the President of Hwa Chong Infocomm and Robotics Society 2016-2017, I 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

- Disassembled and analyzed network / IOT device firmware.
- Discovered and reported 3 vulnerabilities in Singtel Mesh Nodes, assigned CVE-2020-15357, CVE-2020-25545 and CVE-2020-25546.
- Reverse engineered and exploited VirtualBox display driver emulator.
- Used Qiling framework and AFL for emulated closed source binary fuzzing.

Honors & Awards

NATIONAL COMPETITIONS

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

Skills

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