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## **Education**

#### **NUS(National University of Singapore)**

Singapore

B.S. IN COMPUTER SCIENCE

Aug. 2020 - May. 2024 (Exepcted)

## Technical Skills\_

Reverse Engineering, Binary Exploitation, Penetration Testing, Web hacking Cybersecurity

Toolbox Ida, GDB, x64dbg, AFL, Qiling, Burpsuite, Postman **Programming** C / C++, x86 Assembly, Node.js, Python, JAVA, Haskell

Back-end Express, Django, Flask, REST API

Front-end Hugo, Redux, React

## Work Experience \_\_\_\_\_

**Alphalab Capital** Singapore

SOFTWARE ENGINEER INTERNSHIP May. 2022 - Aug 2022

**STAR Labs** Singapore

TOOLS DEVELOPER INTERNSHIP Nov. 2021 - Dec. 2021

· Worked on refactoring and profiled of a custom taint analysis tool written in angr

**STAR Labs** Singapore

N-DAY VULNERABILITY RESEARCHER INTERNSHIP

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.

# Extracurricular Activity \_\_\_\_\_

#### CTFs with (T0X1C V4P0R & StrangleHold & NUSGreyHats)

Singapore

MEMBER

2014 - Present

• Participated on several hacking competition, 60+ CTFs with T0X1C V4P0R from 2017 to 2019 and won a number of awards.

#### **Hwa Chong Infocomm and Robotics Society**

Singapore

PRESIDENT 2016 - 2017

- Developed and led the cybersecurity wing to win multiple national CTFs.
- Led a team of developers to create applications to support school events.

# Projects \_\_\_\_\_

### **CTF Reverse Engineering Challenges**

CHALLENGE AUTHOR

- Needle in a Greystack TISC 2021
- RE Challenges Grey Cat The Flag 2022

BAILIN LI · RÉSUMÉ JUNE 13, 2022

## Librephotos

#### OSS-CONTRIBUTOR

- Librephoto is a self-hosted open source photo management service with 3.3k stars on Github
- Implemented new features to the Django backend and React.js Redux frontend to create better user experience
- Identified and fixed several bugs in the backend

### toy-vm

#### CREATOR

- Toy-vm is a byte-code interpreter with custom ISA, CPU and memory emulation written in C
- It is designed as a foundation for VM based reverse engineering challenges.

## Honors & Awards \_\_\_\_\_

### NATIONAL COMPETITIONS

2020	<b>1st runner up,</b> STACK the Flags - Capture The Flag	Singapore
2020	personal 7th, 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	Champion, Cross CTF	Singapore
2017	Champion, Cyber Defenders Discovery Camp - Capture The Flag	Singapore
2016	Champion, Cyber Defenders Discovery Camp - Capture The Flag	Singapore