

# Chih-Hsuan Yang (楊志璿)

CONTAINER SECURITY RESEARCHER • DevSecOps

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## Education

### National Sun Yat-sen University (NSYSU)

B.S. IN COMPUTER SCIENCE AND ENGINEERING

- Awardee of scholarships by information security
- MOST Research Grant for Undergraduate Students 獲科技部大專學生研究計畫補助
- **Best Paper Award Nominating:** [The Container Security in Healthcare Data Exchange System](#)

Kaohsiung, Taiwan

Sep. 2018 - Jun. 2022

### Information Security Lab (NSYSU)

RESEARCHER

Kaohsiung, Taiwan

Jul. 2019 - Jun. 2022

## Projects

### Facebooc

MAIN DEVELOPER/LEADER

- A Facebook implementation in GNU C
- <https://facebooc.scc-net.tw>

GitHub

Apr 2022, present

### My Home Cloud

MAINTAINER

- A cloud can fully replace Google
- My content searchable distributed academic library
- <https://scc-net.tw>

Jun 2021, present

### The Container Security in Healthcare Data Exchange System

MAIN DEVELOPER/LEADER

- **Best Paper Award Nominating:** Result would come out in 06/16/2022
- Bachelor's degree graduation project
- [https://github.com/25077667/Container\\_Security/](https://github.com/25077667/Container_Security/)

National Sun Yat-sen University  
(NSYSU)

Feb 2021, present

### MITM integration

MAINTAINER

- An integration of Man-in-the-middle attack package
- Figure out victims accounts and passwords in real time
- <https://github.com/25077667/Man-in-the-Middle-Attack>

National Sun Yat-sen University  
(NSYSU)

Jan 2022

### High Scalability Wireguard VPN Server

MAINTAINER

- Use docker swarm with Heidi Cheng
- Cost \$1000 NTD in hardware to serve over 5000 clients concurrently
- [https://github.com/25077667/scalable\\_wg](https://github.com/25077667/scalable_wg)

National Sun Yat-sen University  
(NSYSU)

Apr 2021, Jun 2021

### NSYSU reCAPTCHA Solver

DEVELOPER

- Use CNN recognizer with Ernest Chu
- <https://github.com/25077667/nsysu-captcha-solver>

National Sun Yat-sen University  
(NSYSU)

Spring 2021

## DEVELOPER

- Use NTT twiddle factor with [Max Hsu](#), who is a SiFive intern of system software
- Research at the same time: [Paper](#)

## Skills

<b>General</b>	Modern C++(17), Modern C(11), Python 3, Golang, Shell script, LaTeX
<b>DevSecOps</b>	GitHub Action, Nginx, Docker, Jenkins, Prometheus
<b>Linux</b>	Container, seccomp, LSM, Crontab, UFW, System Programming
<b>Languages</b>	Mandarin (native), English (TOEFL iBT 55), Taiwanese

## Work Experience

**Department of Computer Science and Engineering, NSYSU**

Kaohsiung, Taiwan

OPERATING SYSTEM TEACHING ASSISTANT

Feb. 2021 - Jun. 2022

**Information Security Club, NSYSU**

Kaohsiung, Taiwan

CLUB'S FOUNDING PRESIDENT

Sep. 2019 - Jun. 2021

- R&D, Server Maintainer
- Teaching, Communicator

**Campus Dormitory Promote Association (CDPA), NSYSU**

Kaohsiung, Taiwan

NETWORK MANAGER

Sep. 2019 - Jun. 2020

- Network manager, R&D

**Telecom Technology Center**

Kaohsiung, Taiwan

INFORMATION SECURITY ENGINEER INTERN

Jun. 2019 - Aug. 2019

- Develop automatic apk vulnerability detection tool chain.
- Study static analysis tool which look for bugs in Java code.(SpotBugs)

## Writing

**The Linux Kernel Module Programming Guide**

GitHub

CONTRIBUTOR

- The Linux Kernel Module Programming Guide (updated for 5.x kernels)

**Debian Reference**

Debian Salsa

CONTRIBUTOR

- This Debian Reference is intended to provide a broad overview of the Debian system as a post-installation user's guide.

**Mathematics: Science or Pseudoscience?**

AUTHOR

May, 2022

- A brief survey if Mathematics is science or pseudoscience.