Chih-Hsuan Yang (楊志

CONTAINER SECURITY RESEARCHER • SDET

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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: The Container Security in Healthcare Data Exchange System

Information Security Lab (NSYSU)

RESEARCHER

Kaohsiung, Taiwan

Kaohsiung, Taiwan

Sep. 2018 - Jun. 2022

Jul. 2019 - Jun. 2022

Projects

Django renderer in C++

AUTHOR

Fall 2022, present

- A Django language supporting renderer in C++20
- · Using co-routine, conan, boost, CMake
- Familiar with Functional programming, Serialization
- https://github.com/25077667/Django_cpp

Facebooc

MAIN DEVELOPER/LEADER

Apr 2022, present

- A Facebook implementation in **GNU C11**
- Familiar with Copy-on-Write, aio, SOLID pattern, madvice, zero-copy in C
- Familiar with gdb, Address sanitizer, Valgrind in debugging
- Familiar with GNU Makefile, GitHub CI to build and release
- https://github.com/25077667/facebooc

TCP-over-DP

MAINTAINER Jun 2022, present

- Implement TCP over UDP in Modern C++20
- Familiar with template meta-programming, zero-copy, SSO, Object compile time optimization
- Familiar with Virtual table, RAII, pImpl ...for C++ internal
- Familiar with **Timerfd** in Linux
- Familiar with CMake to build and release
- https://scc-net.tw

The Container Security in Healthcare Data Exchange System

National Sun Yat-sen University (NSYSU)

MAIN DEVELOPER/LEADER

Feb 2021, present

- Best Paper Award in CISC2022
- · Bachelor's degree graduation project
- Using eBPF, seccomp
- Familiar with cgroup, namespace, LSM, seccomp in Linux
- https://github.com/25077667/Container_Security/

High Scalability Wireguard VPN Server

MAINTAINER

- Using docker swarm to connect containers in different hosts
- Cost \$1000 NTD in hardware to serve over 5000 clients concurrently
- Using Prometheus, Grafana, Wireguard, Docker-compose, fail2ben, ufw
- https://github.com/25077667/scalable_wg

National Sun Yat-sen University (NSYSU)

Apr 2021, Jun 2021



General Modern C++(17), Modern C(11), Python 3, Golang, Shell script, LaTeX

DevSecOps GitHub Action, Nginx, Docker, Jenkins, Prometheus

Linux Container, seccomp, LSM, Crontab, UFW, System Programming

Languages Mandarin (native), English (TOEFL iBT 55), Taiwanese

Work Experience

Engine Team, TeamT5

RESEARCHER AND DEVELOPER

Oct. 2022 - present

• Shoving in my **first** commit right before hitting **5 hours** from onboarding

• Requested 4 merge requests in the first week

• Improved over **2x performance** of fundamental routine

Department of Computer Science and Engineering, NSYSU

OPERATING SYSTEM TEACHING ASSISTANT

Kaohsiung, Taiwan Feb. 2021 - Jun. 2022

Familiar with Booting process form BIOS and from process, sched_entity

Information Security Club, NSYSU

Kaohsiung, Taiwan

Club's Founding President Sep. 2019 - Jun. 2021

• R&D, Server Maintainer

Teaching, Communicator

Leaded club growing to 100 people

Campus Dormitory Promote Association (CDPA), NSYSU

Kaohsiung, Taiwan

Campus Dormitory Promote Association (CDPA), NSYSU
NETWORK MANAGER

Sep. 2019 - Jun. 2020

· Network manager, R&D

Telecom Technology Center Kaohsiung, Taiwan

INFORMATION SECURITY ENGINEER INTERN

raonsiang, raiwar

Develop automatic apk vulnerability detection tool chain.

• Study static analysis tool which look for bugs in Java code.(SpotBugs)

• Familiar with shell script, reverse engineering

Jun. 2019 - Aug. 2019

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.