

Chih-Hsuan Yang 楊志璿

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Education

B.S. in Computer Science and Engineering

Kaohsiung, Taiwan

National Sun Yat-sen University (NSYSU)

Sep. 2018 - Jun. 2022

- 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 Candidate:** [The Container Security in Healthcare Data Exchange System](#)
- Researcher in [Information Security Lab](#) (mentor: Chun-I Fan) for 3 years.

Work Experience

Senior R.D.

Taipei, Taiwan

Engine Team, TeamT5

Oct. 2022 - present

- Co-working
 - Received **3** coworker awards at the **first** retrospective meeting.
 - Promoted to be senior before hitting **3 months** of joining.
 - Helping **4** junior members to get familiar with the project.
- Tech-skills
 - Shoving in my **first** commit right before hitting **5 hours** from onboarding.
 - Developed a testing framework to **reduce** testing costs from **5+ hr** to **15 min**.
 - Resolved over **3 million** level requests **concurrently**.
 - Identified and resolved a memory leak issue that had gone undetected for 7 years.

Operating System Teaching Assistant

Kaohsiung, Taiwan

Department of Computer Science and Engineering, NSYSU

Feb. 2021 - Jun. 2022

- Familiar with **Boot**ing process from **BIOS** and from **process**, **sched_entity**.

Club's Founding President

Kaohsiung, Taiwan

Information Security Club, NSYSU

Sep. 2019 - Jun. 2021

- Leading **6 members** to cooperate 2 server for **over 25 containers** and growing to **100 people**.
- Teaching **more than compulsory's** number of people in our club.
- **Introducing security guides for campus affair office.**

Selected Open Sourced Projects

VMPilot

GitHub

Author

Jun 2023, present

- A C++17's VM SDK under LLVM IR
- Modern and post-quantum thm. perfect secrecy
- Decompile, runtime JIT concurrently, ...
- CMake, CPM, BLAKE3-cmake, ...

Standalone Python

GitHub

Author

Sep 2023

- Seamlessly compatible with legacy systems.
- Ideal for **GLIBC-incompatible** setups.
- Handpicked Python versions for your needs.
- Works effortlessly across all Linux platforms.

Django renderer in C++

GitHub

Author

Oct 2022, Dec 2022

- A Django language supporting renderer in C++20
- Using **co-routine**, **conan**
- Familiar with **FP**, **Serialization**

Facebooc

GitHub

Main developer/Leader

Apr 2022, Aug 2022

- A Facebook impl. in **GNU C11** under RFC2616...
- Familiar with **CoW**, **aio**, **SOLID**, **madvice**, **zero-copy**
- Familiar with **gdb**, **ASAN**, **Valgrind** for debugging
- Familiar with GNU Makefile, GitHub CI

Misc you can ask

GitHub/GitLab

2023

- Optimize (**GCC/libstdc++**) performance of **rfind** (on going)
- Fixed **spdlog (19k, Gabime)** IO inconsistency issue
- Fixed **cpprestsdk (7.5k, Microsoft)** UTF-16 decode issue
- Improved distro (**Python**) code quality +0.03
- Fixing **retdec (7.4k, avast)** compilation error on Apple Clang

Writing

The Container Security in Healthcare Data Exchange System

CISC2022

Linux Kernel Scheduler Internals

GitHub

The Linux Kernel Module Programming Guide

GitHub

Debian Reference

Debian official Salsa