

Jesse Huang

Taipei, Taiwan | ja1d7w@gmail.com | jaid.tw | linkedin.com/in/jaidtw | github.com/jaidtw

Skills

Languages: Mandarin (Native), English, Japanese

Programming Languages: C++, C, Python

Technologies: LLVM, glibc, SQL, git, reverse engineering, gdb, IDA Pro, Ghidra, glibc, Linux system management, System programming, Security programming, Control Flow Integrity, x86, RISC-V, Yara, qemu, binutils, tcpdump

Experience

Software Engineer, Compiler Technology, SiFive Inc. – Hsinchu, Taiwan Jul. 2022 – Present

- Contributed new RISC-V extensions, intrinsics into LLVM.
- Implemented RISC-V CFI(Control Flow Integrity) features into **glibc**, **newlib**, **qemu**, **LLVM**
- Maintain C libraries including **glibc**, **newlib**
- Implemented vector optimizations into LLVM RISC-V backend
- Optimize internal binary analysis tool to speed up by **20x** by rewriting into Python module with C++ parallelization and **Pybind11**

Security Research Intern, CyCraft Technology Co. – Taipei, Taiwan Jun. 2020 - Oct. 2021

- Analyzed malware and ransomware samples
- Research on large scale high performance pattern matching tools and algorithms
- **YaDa**, A tool to decompile **Yara** binaries written in Python3
- Engaged in the design of **Cybercans**, an educational board game leverages the concept of Cyber Defense Matrix, as well as assist its promotion in Japan.

Education

University of California, Los Angeles (UCLA) Sep. 2020 – Mar. 2022

M.S. in Computer Science

National Taiwan Normal University (NTNU) Sep. 2014 – Jun. 2018

B.Eng. in Computer Science and Information Engineering

Speaking & Teaching

YaDa - Reverse Engineering with Yara Bytecode Source Code Tokyo, Mar. 1, 2023

Speaker at **SECCON 13 Open Conference**

Basic Reversing with Ghidra

Taipei, Jul. 2021

Invited speaker at **Advanced Information Security Summer School (AIS3) 2021**

Linux Reverse Engineering

Jul. 2021 / Oct. 2022

Consultant for **Onward Security** (Teaching to the Cyber Warfare Command of Taiwan).

Linux Reverse Engineering

May. ~ Jun. 2019

Invited instructor of **Institute Information Industry(III)** (Teaching to the Cyber Warfare Command of Taiwan).

Awards

2024, 7th (of 12), DEF CON CTF 2024 Final Las Vegas, U.S.A.

2023, 3rd (of 12), DEF CON CTF 2023 Final Las Vegas, U.S.A.

2022, 9th (of 16), DEF CON CTF 2022 Final Las Vegas, U.S.A.

2021, Solver (42 out of 5,465), NSA Code Breaker Challenge

2020, Champion (1st/6), HITCON x Balsn CTF Final Taipei, Taiwan

2019, 9th (of 16), HITCON CTF Final Taipei, Taiwan

2018, 8th (of 17), DefCamp CTF Final
2018, Potential Award (4th/16), AIS3 EOF CTF Final
2017, Excellent Student Scholarship
2016, Academic Excellent Award

București, Romania
Taipei, Taiwan
Dept. of CSIE, NTNU
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