

Ho-Lun (Allen) Wu

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SUMMARY

7+ years' experience in software development and 10+ projects in C/C++, Python, JS, SQL and Verilog etc.

HIGHLIGHTED COURSES

System/Network Administration, Operating System Design and Implementation, Hardware-Software Co-design and Implementation, Network Programming, Technology Entrepreneurship

EDUCATION

University of California San Diego Sep 2018 — Jun 2020 (expected)
Master of Science, Computer Science and Engineering (Program of Computer Science)
National Chiao Tung University Sep 2014 — Feb 2018
Bachelor of Science, Computer Science (Program of Computer and Electrical Engineering)

PROFESSIONAL EXPERIENCE

Industrial Technology Research Institute | Hsinchu, Taiwan

Part-time Software Engineer

Jun 2015 — May 2018

- Developed machine learning methods for extraction of keywords and trends from mandarin data source
- Developed crawler and web platform for E-Commerce and Social Network Big Data collection

Hacker College | Taiwan

Teaching Assistant and Staff

Feb 2017 — Feb 2018

- Prepared course materials and communicated with lecturers and students
- Helped students clarify the concepts in courses in relative to security and system administration

Computer Science Computer Center, National Chiao Tung University | Hsinchu, Taiwan

Teaching Assistant and Staff

Sep 2015 — Sep 2017

- Developed web platform and maintained workstation system for Computer Science Department
- Assisted students and department employees in dealing with technological issues

Introduction to Computers and Programming / Object-Oriented Programming | Hsinchu, Taiwan

Teaching Assistant

Sep 2015 — Jun 2017

- Helped students dispel their confusion and difficulties in the programming courses
- Guided students to complete their homework and answered questions about their exams

ICube Organization, National Chiao Tung University | Hsinchu, Taiwan

Lecturer

2015 — 2016

- Lectured lessons toward programming problem solving and basic Python programming

SELECTED PROJECTS

NCTU Online Judge System (<https://oj.nctu.me>)

2015 — present

- Founder of the team of NCTU Online Judge System devoted to judging submissions automatically
- Used by more than 8 professors from a couple of universities delivered homework through this system
- Web: developed backend with asynchronous web framework(Python) and SPA frontend with ReactJS
- Judge: collected all waiting submissions in Judge Center and dispatched to multiple Judge Clients

Academic Project - Malware Detection in Machine Learning

Sep 2016 — Jan 2018

Advisor: Prof. Shiuh-Pyng, Shieh, Computer Science Dept. NCTU

- extracted features by dynamic and static analysis, and classified via machine learning and neural network

Hardware-Software Co-design and Implementation Project – Motion Estimation

Feb 2017 — Jun 2017

- programmed Verilog and C on FPGA to compute motion vector between two consecutive image frames
- took less than 13 ms to finish each computation on 720 * 480 images frames

ACHIEVEMENTS

Mei-Chu Hackathon

Oct 2017

- Achieved 1st Place over 25 teams, and invited to cooperate on projects by Logitech

OpenStack Hackathon

Mar 2016

- Achieved top 6 over 35 teams (200 participants) from industry and students

ACM-ICPC Asia Jakarta Regional Contest

Nov 2015

- Achieved Rank 9th over 73 teams from several universities in Asia

Taiwan Olympiad in Informatics (TOI) Camp

2014

- Attended training camp for top 30 senior high school students, devoted to competitive problem solving