

Fucheng Hsieh

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EXPERIENCE

National Chiao Tung University

Aug. 2020 – Aug. 2021

Research Assistant, NEMS Lab

Hsinchu, Taiwan

- Refactored modules of MEC platform, **boosted execution time by 25x**
- Collaborated with SNMS Lab (Michigan State University) to conduct experiments in uncovering security vulnerabilities of cellular IoT devices; the paper was accepted by **MobiCom'21 (acceptance rate 59/297 = 19.9%)**
- Organized and contributed experiments result in Prioritized Traffic Shaping MEC for cellular networks; the paper was accepted by **IEEE CCNC'22**
- Partnered with Lanner Inc. to design an All-in-One store opening solution, including IP Camera, POS, and EasyMesh Wi-Fi; implemented the entire system in OpenWRT routers and virtualized system controller in a central server

Trend Micro Inc.

Summer 2017/2018

Software Engineering Intern

Taipei, Taiwan

- Developed an automated tool to ensure product installation procedure follows the companys quality standard; discrepancies were found and presented in the team meeting
- Implemented an automated tool to synchronize LDAP authentication settings from the employee database whenever an organizational change is detected. Deployed the program to the IT system
- Built a query script for engineers to check operating procedures whenever a competitors product was installed on the same machine

EDUCATION

University of California, Irvine

Sept. 2021 – Present

M.S. in Computer Science

Irvine, CA

National Chiao Tung University

Sept. 2016 – June 2020

B.S. in Computer Science

Hsinchu, Taiwan

- **Cumulative GPA:** 4.11/4.30, **Class Rank:** 2/58
- **Honors:** Academic Achievement Award, 4 semesters
- **Teaching Assistant:** System Administration (graduate-level course)

PROJECTS

NFT Marketplace

- Utilized Ethereum protocols to implement smart contracts, allowing users to trade and manage their own NFTs
- Designed a full-stack app using React, Next, and Bootstrap. Built with responsive design for different types of users

Fabric Defect Detection Tool

- Developed Fabric Defect Detection Tool with DL models to help manufacturers increase the product yield
- Implemented a user-friendly interface for users to upload the fabric images and detect defects automatically

μC Compiler

- Utilized C, Yacc, and Lex to create a C-like compiler, supporting most of the C-language elements
- Designed a user-friendly interface to provide a seamless user experience to other widely used compilers

SKILLS

Languages : C/C++, Python, JavaScript (React, Node), Bash, HTML/CSS, SQL

Tools : UNIX, Git, Docker, Wireshark, OpenWRT, \LaTeX