

# Fucheng Hsieh

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## EXPERIENCE

### National Chiao Tung University

Aug. 2020 – Aug. 2021

*Research Assistant, NEMS Lab*

Hsinchu, Taiwan

- Refactored existing modules of MEC platform, boosted execution time by 25x; presented in several conferences including Future Tech Expo and GLOBECOM20
- Collaborated with SNMS Lab from Michigan State University to conduct experiments in finding security vulnerabilities of cellular IoT devices; the paper was accepted by MobiCom21 (acceptance rate 59/297 = 19.9%)
- Partnered with Lanner Inc. to design an All-in-One store opening solution, including IP Camera, POS, and EasyMesh Wi-Fi; implemented system in OpenWrt routers and virtualized mesh controller in the central server

### Trend Micro

Summer 2017/2018

*Software Engineering Intern*

Taipei, Taiwan

- Developed an automated tool to ensure product installation procedure follows the company 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; was shipped to the IT system.
- Built an incompatibility query tool for engineers to decide what action should be taken 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
- **Courses:** Algorithms, System Administration, Compiler, Machine Learning, Protocol and System Design
- **Teaching Assistant:** System Administration (graduate-level course)

## PROJECTS

### Personal website

- Mentored 15 students towards acceptance at top US boarding schools; achieved **100% success rate**
- Designed a **collaborative learning ecosystem** for students and parents with Trello, Miro, and Google Suite

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- Designed and released 100+ minimal iOS and Android icons from scratch using Procreate and Figma
- Marketed the product and design process on [YouTube](#); accumulated over **\$250 in sales** on [Gumroad](#)

### Fiber defect auto-detection

- Built a Python script to automatically apply to jobs on Glassdoor using BeautifulSoup and Selenium
- **500 stars on GitHub**; featured on [Hackaday](#); made the front page of [r/python](#) and [r/programming](#)

## SKILLS

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

**Tools :** Git, Docker, Wireshark, OpenWRT,  $\LaTeX$