

# An-Chi Liu

SOFTWARE ENGINEER · SYSTEM SOFTWARE PROFESSION

Taipei, Taiwan

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## Education

### National Yang Ming Chiao Tung University (NYCU)

#### M.S. in Computer Science and Engineering

- GPA: 3.91/4.3. Previous school name is **National Chiao Tung University (NCTU)**
- Thesis: Offloading framework for parallel web applications. The first study for offloading parallel web applications to cloud, which can improve web apps performance up to 5x on a mobile device. A rank-B conference paper is reviewed in process.

Hsinchu, Taiwan

Sep. 2019 - Jun. 2022 (Expected)

### Polytechnic University of Milan

#### M.S. Exchange Program in Computer Science and Engineering

Milan, Italy  
Sep. 2021 - Feb. 2022

### National Taiwan University (NTU)

#### B.S. in Bio-Industrial Mechatronics Engineering

- Thesis: A machine learning model of efficient website rendering for server rendering browser. Proposed a model to guess which parts of the website need to be re-rendered so that reduces rendering time and optimize web performance. GPA: 3.10/4.3.

Taipei, Taiwan  
Sep. 2014 - Jun. 2019

## Work Experience

### National Yang Ming Chiao Tung University

#### Teaching Assistant

- Parallel Programming (Spring 2021, Fall 2020). Won the **NYCU outstanding teaching assistant award** in 2021. Led a four-TA team to serve a 120-student course, including designing programming assignments, providing workplace environments, and interacting with students.
- Numerical Software Development (Spring 2021, Fall 2020, Spring 2020, Fall 2019). Reviewed and scored students' programming assignments on Github.

Hsinchu, Taiwan  
2019 - 2021

### National Center for High-Performance Computing

#### Research Intern

- Built a web system for an AI service, which is provided by other two ML/DL-profession teammates which gives users a frontend GUI (with Angular) to lunch and monitor AI tasks, and includes a backend system (with Node.js Express + Python Flask) to manage the AI service.

Hsinchu, Taiwan  
Jul 2020 - Mar 2021

### Skymizer

#### Software Engineering Intern

- Developed unit tests (using GoogleTest) at variant levels for the C backed-end of the Open Neural Network Compiler (ONNC, an open-source AI compiler), where the coverage reached above 90%.

Taipei, Taiwan  
Feb 2019 - Jun 2019

### CloudMosa, Inc.

#### Software Engineering Intern

- Developed the module that enables users to download files directly to Dropbox on Puffin browser, including a Python backend to connect cloud services APIs and modifications for the core of Puffin browser (a remote browser engine).
- Developed parts of frontend GUI (with GTK) for the Linux version of Puffin browser.

Taipei, Taiwan  
Jul 2018 - Sep 2018

### Delta Electronic, Inc.

#### Software Engineering Intern

- Designed full-stack system for DNA analysis service, which includes login, control panel and monitor, via Angular, Ant Design, Express and MongoDB with complete unit tests at variant levels.

Taipei, Taiwan  
Sep 2017 - Dec 2017

## Projects

### Open-Source Projects

- **WxKitty**: Owned a Line Chatobot for Taiwan weather checking, which has **6000 users** and gets more than **100 stars**. Providing information on weather, forecast, typhoon, earthquake, etc.
- **Vocabulary Titan**: Owned a Line Chatobot integrated different online dictionaries for English vocabulary looking up with **8000 users**, which shorten the searching time of switching different dictionaries when preparing for English exams like TOEFL or GRE.
- **node-color-log**: Owned a lightweight JavaScript logger with **10k/month** downloads, which provides an alternative solution to existing mature counterparts which are usually huge.
- **Servo Browser**: Contributed to Mozilla's new web browser engine written in Rust (20k stars). Contributed about **50 commits**, including browser core functionality (followed web standard SPEC) and web tests.

## Skills

**Programming** Proficient: JavaScript, Node.js, **Experienced:** C/C++, Python, Rust, PHP, Java, C#

**CS Interests** Web technology, web browser, system software, parallel programming, heterogeneous computing

**Full-stack** HTML5, Angular, jQuery, Express, REST API, Flask, SQL, Chatbot, Android, AWS, CI/CD, Git, Github, Unity

**Languages** Mandarin Chinese (Native), English (Business), Japanese (Basic)