

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: 4.11/4.3. 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 - May. 2022

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)