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
Hsinchu, Taiwan
Sep. 2019 - Jun. 2022
- 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.

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
Taipei, Taiwan
Sep. 2014 - Jun. 2019
- 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.

Work Experience

National Yang Ming Chiao Tung University
Teaching Assistant
Hsinchu, Taiwan
2019 - 2021
- Parallel Programming (Spring 2021, Fall 2020). Won the NYCU outstanding teaching assistant award in 2021.
- Numerical Software Development (Spring 2021, Fall 2020, Spring 2020, Fall 2019)

National Center for High-Performance Computing
Research Intern
Hsinchu, Taiwan
Jul 2020 - Mar 2021
- Built a full-stack system for an AI service, which provides 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.

Skymizer
Software Engineering Intern
Taipei, Taiwan
Feb 2019 - Jun 2019
- Developed unit tests (using GoogleTest) at variant levels for the C backed-end of the Open Neural Network Compiler (ONNC).

CloudMosa, Inc.
Software Engineering Intern
Taipei, Taiwan
Jul 2018 - Sep 2018
- 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.

Delta Electronic, Inc.
Software Engineering Intern
Taipei, Taiwan
Sep 2017 - Dec 2017
- Designed full-stack system for DNA analysis service, which includes login, control panal and monitor, via Angular, Ant Design, Express and MongoDB with complete unit tests at variant levels.

Fusion$360
Software Engineering Intern
Taipei, Taiwan
Nov 2016 - Jul 2017
- Designed and developed a frontend page with Angular for E-Wallet service.
- Developed crawlers of news and patents (Taiwan, Europe, U.S) from web pages and APIs in Java.

Projects

Self Projects
- **WxKitty**: A Line Chatobot for Taiwan weather information, which has **6000 users** and gets more than **100 stars**. `https://github.com/weather-bot/WxKitty`
- **Vocabulary Titan**: A Line Chatobot integrates different online dictionaries for English vacabulary looking up with **8000 users**. `https://github.com/tigercosmos/vocabulary-titan`
- **node-color-log**: A lightweight JavaScript logger with **10k/month** downloads. `https://github.com/tigercosmos/vocabulary-titan`

Big Projects
- **Servo Browser**: Mozilla's new web broswer engine writtern in Rust (20k stars). Contributed about **50 commits**, including browser core funtionality and web tests. `https://github.com/servo/servo`

Skills

Programming	Expert: JavaScript, C/C++, Python, Node.js, Experienced: Rust, PHP, Java, C#
Full-stack	HTML5, Angular, jQuery, Express, REST API, Flask, MongoDB, MySQL, Chatbot, Android, AWS, CI/CD, Git, Github
Languages	Mandarin Chinese (Native), English (B2, TOFEL iBT 83), Japanese (A1)