Cynthia Liu

SOFTWARE ENGINEER · M.S. IN EE

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EDUCATION

Stanford University   *Stanford, CA*
M.S. in Electrical Engineering   *Sep. 2021 - **Exp. Jun. 2023***
- Focusing in **Software Systems / Distributed Systems**

National Taiwan University   *Taipei, Taiwan*
B.S. in Electrical Engineering   *Sep. 2015 - Jun. 2019*
- Specialized in Computer Networks and Systems
- Related courses: Data Structure and Programming · The Design and Analysis of Algorithms · Web Programming · Introduction to Computer Network · Networking and Multimedia Lab

WORK EXPERIENCE

17LIVE - Live Streaming Platform   *Taipei, Taiwan*
BACKEND ENGINEER · FULL TIME   *Mar. 2021 - Aug. 2021*
- Collaborated with a team of 40+ to develop **GroupCall** service, providing **multi-person live stream** and multi-room interactive features.
- **Optimized the systems stability and the peek capacity** by designing database caching.
- Designed 20+ APIs for both microservices and frontend communication.

Network and Systems Laboratory, NTU   *Taipei, Taiwan*
UNDERGRADUATE RESEARCHER, SUPERVISED BY PROF. POLLY HUANG   *Sep. 2018 - Jun. 2019*
- Developed wearable system based on FPCB (flexible printed circuit board) for muscle fatigue estimation.
- Gave presentation as team representative at the international conference, *EWSN'19*.

SKILLS

Programming	C/C++, Python, Go, JavaScript, Matlab, LaTeX
Backend	MongoDB, Redis (RU101 Certificate ↗), MySQL

SOFTWARE PROJECTS

Auxiliary Teaching Website (Fashion Ceiba) ↗   *Jun. 2019*
EE3035: WEB PROGRAMMING
- Open-source course website built with React, Node.js and MongoDB.

Blockchain-Based Housing Agency System ↗   *Jan. 2019*
EE3002: NETWORKING AND MULTIMEDIA LAB
- Consortium Blockchain for housing agencies to achieve housing transactions.

Smart EC : Program-Building for Name Mapping ↗   *Nov. 2018*
EE3012: INTRODUCTION TO EDA, ICCAD CONTEST 2018 (PROF. IRIS HUI-RU JIANG)
- Proposed algorithm using group sorting and hash functions to solve Name Mapping problem.

LEADERSHIP

Student Representative for Curriculum Reform, *NTUEE Student Association*   *Sep. 2017 -Jun. 2018*
- Promoted new curriculum planning, which has benefited 720+ students in my department until now.

AWARDS

2019	**Finalist & 1st Place of Sponsor Awards**,	MakeNTU Hackthon	*Taipei, Taiwan*
2018	**Finalist & 1st Place of Sponsor Awards**,	MakeNTU Hackthon	*Taipei, Taiwan*