Chao Wen Chen

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OBJECTIVE

First year student in ISA@NTHU. Inquisitive, hard-working and consistent. Looking for internship opportunities at IBM where I can apply my skills and contribute to real-world projects.

EDUCATION

National Tsing Hua University, Taiwan
Bachelor of Engineering, Computer Science and Engineering(CSE)
National Tsing Hua University, Taiwan
Master of Engineering, Institute of Information Systems and Applications(ISA)

TECHNICAL SKILLS

Experienced : AWS, Kubernetes, MySQL, PostgreSQL, Docker, Hadoop
Tools/Framework : Laravel, React, Vue, Node.js
Languages : PHP, Javascript, Python, C/C++

EXPERIENCE

Website Administrator and Developer of ITRI   **Jun 17 - Mar 19**
We developed a website for paper searching and recommanding. More than a thousand people have registered and more than 2000 paper is included in this website.

Summer Intern of Administration Yuan   **Jul 18 - Aug 18**
It's a project for checking and revise websites of departments in the gonvernment. I checked hundreds of websites and give them advices to make it better.

Network Manager of CSCC@NTHU   **Aug19 -**
I'm responsible for the network function of hosts and switches belong to Department of Computer Science. Including IP management, abuse of network reporting, etc.

PROJECTS

A Laravel based website includes thousands of papers with well arrangement and recommendation. We carefully designed RESTful APIs and follow MVC pattern.
- **Link:** industry4.tw/

Realizing a media-aware network element based on P4, an SDN language. We conduct experiments with bmv2 and SVEF. The result shows that we can maintain stable video streaming than regular switches.
- **Link:** ieeexplore.ieee.org/abstract/document/8406129

We reconstruct a website of Butterfly Garden in NTHU since the old website isn't suitable for mobile devices. We redesign the database, and follows the MVC pattern by using Laravel and Vue.
- **Link:** belc-butterfly.vm.nthu.edu.tw

Publications

[1] G. Wang, **C. Chen**, C. Chen, L. Pan, Y. Wang, C. Fan, and C. Hsu, "Streaming scalable video sequences with media-aware network elements implemented in P4 programming language," in Proc. of IEEE Network Operations and Management Symposium (NOMS18) Demo Session, Taipei, Taiwan, April 2018, pp. 12.

[2] Q. Zhu, M. Uddin, N. Venkatasubramanian, **C. Chen**, and C. Hsu, "Spatio-temporal scheduling of in-Situ and mobile Internet-of-Things devices for urban environment sensing," Ongoing Work.

[3] **C. Chen**, T. Hong, and C. Hsu, "Essential Components of Modern Machine Learning Platforms," Ongoing Work.

Research Grant

[1] Streaming scalable video Sequences with media-aware network elements, MOST Undergraduate Research Project (#107-2813-C-007 -074 -E), $48,000, July 2018 - February 2019