

Chuo-Yun Yang

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Education

Georgia Institute of Technology

Atlanta, U.S.

M.S. in Computer Science

May 2020

Courses (Currently taking) Advanced Operating System, Big Data Systems & Analytics, Database Systems Concept and Design, Computer Networks

National Chiao Tung University

Hsinchu, Taiwan

B.S. in Computer Science (GPA: 4.13/4.3)

January 2018

Awards Academic Achievement Award (Students within top 5%: 3 Semesters)

Courses Cloud Computing, System Administration, Compiler Design, Computer Networks, Database Systems, Operating Systems, Data Structures, Algorithms

Experience

NCTU Online Curriculum Assistant Project

NCTU, Hsinchu, Taiwan

July 2017 – July 2018

[A website to help students analyze learning processes, communicate with mentors, choose courses, and check graduation status with a user-friendly interface.]

Back End Web Developer Intern (Build the website from scratch)

- Deployed website with Express and Nginx
- Implemented login system with OAuth
- Designed Restful API to retrieve student data
- Tracked whether a student satisfies graduation requirement which greatly reduced assistants' workload
- Reduced size of bundle.js (generated by webpack) by more than 80%

SDN Project

Accton Technology, Hsinchu, Taiwan

July 2017 – August 2017

[Working on various ONOS applications.]

Intern

- Studied Openflow Protocol and built different network topology with MININET
- Constructed vRouter with ONOS and OVS and rewrote ONOS app to control routing

Projects

Interactive Map Taking Input From Sensors

August 2016 – July 2017

[In NCTU, there are various sensors with information about their locations. Having a single output device to display all kinds of information in a user-friendly way is important.]

- Integrated sensors in NCTU campus to a single output device by Google Map API using IOTTALK platform constructed by Prof. Yi-Bing Lin's laboratory
- Analyzed geodata from LoRa-Based dog trackers to track and predict location of dogs

Private Cloud Storage Service

September 2017 – January 2018

[A private cloud object storage (Swift) that users can customize how they want their data to be stored by customizing different middleware.]

- Deployed Openstack with multi-node and installed Object Storage (Swift)
- Configured middleware of Swift with Python
- Designed a web interface to customize different middleware and interact with Swift API by Express

Hypervisor Profiling

September 2017 – January 2018

[Compare the memory usage and runtime difference between host machine and hypervisor program when running a multithread program.]

- Designed a program which user can customize thread and CPU number used when running the program, and predicted potential runtime
- Analyzed difference between running multi-thread program on hypervisor and host OS

Skills

Proficient in C/C++, Express, Node.js, Javascript, Docker, Git, Nginx **also familiar in** Python, Java, Assembly, Verilog, Bash, MySQL