

# Chuo-Yun Yang

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## Education

### Georgia Institute of Technology

Atlanta, U.S.

M.S. in Computer Science

Aug 2018 –

**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)

Sep 2014 – Jan 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

Jul 2017 – Jul 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)

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

### SDN Project Accton Technology, Hsinchu, Taiwan

Jul 2017 – Aug 2017

[ Working on various ONOS applications ]

Intern

- Study Openflow Protocol and build different network topology with MININET
- Construct vRouter with ONOS and OVS and rewrite ONOS app to control routing

## Projects

### Building an Interactive Map Taking Input From Sensors

Aug 2016 – Jul 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 ]

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

### Create a Private Cloud Storage Service

Sep 2017 – Jan 2018

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

- Set up Openstack with multi-nodes and install Object Storage (Swift)
- Configure middleware of Swift with Python
- Designed a web interface to customize different middleware and interact with Swift API by Express

### Hypervisor Profiling

Sep 2017 – Jan 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 predict potential runtime
- Analyze difference between running multithread 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