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, Computability & Algorithms, 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 their learning processes, communicate with their 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
- Provide 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
- Provide 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*