Chuo-Yun Yang

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Education

Georgia Institute of Technology   Atlanta, GA
M.S. in Computer Science   Expected in May 2020
Courses: Big Data Systems & Analytics, Database Systems Concept and Design, Computer Networks, Advanced Operating System

National Chiao Tung University   Hsinchu, Taiwan
B.S. in Computer Science (GPA: 3.99/4.0)   Jan. 2018
Awards: Academic Achievement Award (4 Semesters; students within top 5%)
Courses: Data Structures, Algorithms, Cloud Computing, System Administration, Compiler Design, Computer Networks, Database Systems, Operating Systems

Professional Experience

Back End Web Developer Intern *NCTU, Hsinchu, Taiwan*   July 2017 – July 2018
NCTU Online Curriculum Assistant Project
Built the website from scratch
o   Helped students in NCTU Department of Computer Science analyze learning processes, communicate with mentors, choose courses, and check graduation status with Express, Nginx, Docker and PM2
o   Implemented login system with OAuth and HTTPS to make the system more secure and reliable
o   Created and designed up to 50 Restful APIs to retrieve data conveniently
o   Helped approximately 200 students to check if they meet graduation requirements
o   Reduced size of bundle.js (generated by webpack) by more than 80% to speed up the website

Software Engineering Intern *Accton Technology, Hsinchu, Taiwan*   July 2017 – Aug. 2017
SDN Project
Working on various ONOS applications
o   Studied Openflow protocol and built different network topologies with MININET
o   Constructed vRouter with ONOS and Open vSwitch and rewrote ONOS app to control routing

Selected Projects

Interactive Map   Aug. 2016 – July 2017
o   Integrated various sensors in NCTU campus with geolocation to interactive map with Google Map API
o   Analyzed 250 geolocation records collected from LoRa-based dog trackers to predict location of dogs
o   Combined 3 monitors with dog sensors in the campus to show real-time images of dogs

Private Cloud Storage Service   Sept. 2017 – Jan. 2018
o   Deployed multi-node OpenStack and installed Object Storage (Swift)
o   Created 3 replicas of original object with the probability of losing any objects of 1GB size $\leq 10^{-11}$
o   Designed middleware of Swift with Python that a user can choose 4 different filters while saving images
o   Configured a web interface to customize different middleware and interact with Swift API by Express

Hypervisor Profiling   Sept. 2017 – Jan. 2018
o   Designed a program in which a user can customize the thread and CPU number used when running the program, and predict potential runtime
o   Analyzed the differences between running multi-thread program on hypervisor and host OS

Skills

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