Chuo-Yun (Joey) Yang

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2019 Summer Software Development Engineer Internship

Education

Georgia Institute of Technology Atlanta, GA

Expected in Dec 2019

M.S. in Computer Science

Courses: Big Data Systems, Database Systems, Computer Networks, Advanced Operating Systems

National Chiao Tung University Hsinchu, Taiwan

Jan. 2018

B.S. in Computer Science (GPA: 3.99/4.0)

- Awards: Academic Achievement Award (4 Semesters; students within top 5%)
- Courses: Data Structures, Algorithms, Cloud Computing, System Administration, Compiler Design

Professional Experience

Back End Web Developer Intern NCTU, Hsinchu, Taiwan

July 2017 - July 2018

- Student Portal
- Built integrated study services for 1000 users in Department of Computer Science and deployed website with Express.js Automated the website to restart in isolated environment when any abnormal event occurs utilizing Docker and PM2
- Secured the website by implementing login system with OAuth2.0 and configured reverse proxy with Nginx
- Created 50 Restful APIs including student graduation status, preferred course sequences, communication between users with authorization based on different user profiles
- Accelerated the website by more than 90% through compressing and serving static files with Webpack and Nginx and reducing size of bundle. is (generated by Webpack) by more than 80%

Software Engineering Intern Accton Technology, Hsinchu, Taiwan

July 2017 - Aug. 2017

- Software Defined Network Controller Applications
- Built different network topologies with MININET and Openflow protocol to test ONOS applications
- Constructed ONOS application vRouter which utilizes ONOS, Quagga, and Open vSwitch to leverage Software Defined Network concept in network routing management

Selected Projects

Dog Tracking Interactive Map *Internet of Things, Web Development*

Aug. 2016 - July 2017

- Integrated dog trackers, PM2.5 sensors, and monitors in NCTU to campus map with Google Map API and JavaScript
- Predicted the location of dogs and combined 3 monitors in the campus to show real-time images of dogs by adopting quadtree to analyze 250 geolocation records collected from dog trackers

Private Cloud Storage Service Cloud Computing, Web Development

Sept. 2017 - Jan. 2018

- Deployed Object Storage Swift in multi-node OpenStack environment
- Created 3 replicas of original object with the probability of losing any object of 1GB size per year ≤10-11
- Built middleware of Swift with Python that can transform and adjust colors to images where user can select the desired effects on a web interface connected to Swift APIs by Express.is

Hypervisor Profiling Cloud Computing, Multithreaded Programming

Sept. 2017 - Jan. 2018

- Predicted potential runtime of a program which allows users to customize number of thread and CPU used written in C
- Analyzed CPU utilization differences between running multithreaded program on hypervisor and host OS

XSL Transformations Compiler Design

Transformed XML files into other format by XSL Transformation in three stages by C++: scanned the input data into tokens, parsed tokens to identify actions to perform, and translated XML by matching patterns of XSL Transformation

Skills

Programming Languages: C/C++, Java, Python, JavaScript, SQL, HTML, CSS **Tools and Frameworks:** Git, Express.js, Webpack, Bash, Docker, Nginx, PM2

Volunteer Experience

Volunteered teaching math and science in Nepal (2012), Colombia (2014), and Taiwan (2015)