Junzhuo Wang

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Objective

Software Development Engineer intern role.

Education

University of Southern California, Los Angeles, CA — Jan. 2016 – Present

Master student in Computer Science (CS), *4.0/4*, expected Dec. 2017

Tongji University, Shanghai, China — Sept. 2011 – Jun. 2015

B.S. in Computer Science (CS), *88.1/100*

Experience

Tongji-Yale Center of Advanced Networks and Networked Systems — Jul. 2015 – Dec. 2015

Java, YANG; Software Development Internship

- Implemented Application Layer Traffic Optimization(ALTO) protocol, which provide network metrics for users by *JSON* in OpenDayLight.
- Implemented route calulating algorithm based on given network status by *Java*.
- Improved L2 Switch module in OpenDayLight to manipulate network configuration to work with ALTO module.
- Deployed ALTO on Caltech's test environment based on CentOS.
- Submitted an IETF draft: *"ALTO Extension: Endpoint Cost Service for Flows"*.

MLW Limited — Feb. 2013 – Jun. 2013

Javascript, HTML, CSS; Web Development Internship

- Built a web application by *Angular.js*.

Skills

- Programming Languages: Python, Java, C++, C, Javascript, HTML5, CSS, Swift, C#
- Platforms and tools: Linix, Shell, git, Angular.js, Bootstrap, Django, Unity, OpenDayLight

Projects

Space Defender — Aug. 2016 – Present

Unity 3D, Blender, C#; A spaceship Tower Defence game at *GamePipe* in USC

Stock Market Inquirer — Jan. 2016 – May 2016

Swift, PHP, HTML5, CSS, Javascript; An iOS application as course project for *Web Technology* in USC

- Built application to retrieve stock historical and real-time information.
- Deployed back-end server on Amazon AWS to provide stock information.

Furniture Preview System Based on Augmented Reality Technique — Jul. 2014

Python, Arduino, C++; A project of *2014 Intel Cup Embedded System Design Contest*

- Built a glove with flex sensor and IMU to grab virtual furniture in augmented reality space.
- Implemented a positioning mechanism using gyro, accelerate meter and camera.
- Optimized performance for Intel Baytrail processor.

Image retrieval system accelerated by CUDA — Nov. 2012 – Feb. 2014

Python, CUDA C, SQL; A project of *Shanghai Undergraduate Innovative Program at Tongji University*

- Built a web application to query back-end server to retrieve image.
- Implemented retrieve system by *GPU-based SIFT* algorithm.

Linux File System — Aug. 2013

C, C++; A course project of *Operating System* in Tongji University

- Implemented Linux file system and related system calls.