Louis (Tianyan) Wu

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EDUCATION

UNIVERSITY OF CALIFORNIA LOS ANGELES

BS in Computer Science
Expected Graduation: Dec 2017
Cum GPA: 3.351

RELATIVE COURSEWORK

Operating System
Software Engineering
Scalable Internet Services
Computer Networking
Database Systems
Programming Language

PROGRAMMING SKILLS

C++
C
C#
Java
Python
PHP
OCaml
Prolog
HTML
CSS
Javascript

OTHER SKILLS

TOOLS AND FRAMEWORKS
• Linux/Bash • Git • Vim • Latex
• Verilog • Unity • Android
• Node.js • D3.js • Ansible
• Mongo DB • MySQL
• Cockroach DB • PostgreSQL
• Twilio API • Heroku • AWS

HARDWARE
• FPGA • Arduino • Teensy

PUBLICATION

WaterCom: Connecting Research Configurations with Practical Deployments
Ciaran Mc Goldrick, Enrique Sagura, Tianyan Wu, Mario Gerla
WUWNet 2016, Shanghai, October 2016

EXPERIENCE

MICROSOFT CORPORATION | Software Engineer
Starts in Jan 2018 | Redmond, WA
- Will work on cross-platforms delivery for Office 365
- Will work on geo-service for targeted Office clients across the world

VIASAT, INC | Software Engineering Intern
June 2017 - Sept 2017 | San Jose, CA

- Developed a visualization tool for SDN Overlay Network using D3.js, Node.js, Mongo DB, Cockroach DB and Redis
- Integrated network visualization tool into existing ViaSat product for automatic detection of network devices
- Used Ansible to automate the process of getting OpenFlow data across multiple servers

MISCHIEF VENTURED LLC | Software Engineering Intern
June 2016 - Sept 2016 | Los Angeles, CA
- Designed and implemented a web application for sharing movie scripts
- Developed REST APIs using Node.js to support file uploading and social network account log in and authentication
- Used React to implement the UI

NETWORK RESEARCH LAB AT UCLA | Undergraduate Researcher
Jan 2016 - June 2016 | Los Angeles, CA
- Designed and implemented a website which allows users to run underwater experiments remotely using PHP, jQuery and MySQL
- Wrote a Python script to visualize data transmission
- Published a paper for WUWNet 2016

PROJECTS

FREE-AND-FOR-SALE | Software Developer
Sep 2016 - Dec 2016 | Los Angeles, CA
- Developed a web application that helps students to sell their used stuff
- Tested the app's scalability on AWS and applied load balancing and server side cache
- Used Twilio to implement a feature that allows users to post their items for sale through messages

BRUINBASE | Software Developer
Sep 2016 - Dec 2016 | Los Angeles, CA
- Programmed a movie database that allows users to freely add and search for movies
- Used C++ to implement a B+ Tree index and a basic SQL engine and improved query performance