

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

Algorithms
Software Engineering
Scalable Internet Services
Computer Networking
Database Systems
Programming Language

PROGRAMMING SKILLS

C++	<div><div></div></div>
C	<div><div></div></div>
C#	<div><div></div></div>
Java	<div><div></div></div>
Python	<div><div></div></div>
PHP	<div><div></div></div>
OCaml	<div><div></div></div>
Prolog	<div><div></div></div>
HTML	<div><div></div></div>
CSS	<div><div></div></div>
Javascript	<div><div></div></div>

OTHER SKILLS

TOOLS AND FRAMEWORKS

• Linux/Bash • Git • Vim • Latex
• Verilog • Unity • Android
• Node.js • D3.js • React.js
• 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

VIASAT, INC | Software Engineering Intern

June 2017 - Present | San Jose, CA

- Developing a visualization tool for SDN Overlay Network using D3.js, Node.js, Mongo DB, Cockroach DB and Redis Cache
- Integrating network visualization tool into existing ViaSat product for automatic detection of network devices
- Designed and implemented a geolocation based augmented reality application using Unity and Vuforia

MISCHIEF VENTURED LLC | Software Engineering Intern

June 2016 - Present | 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

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 implemented optimization techniques such as caching and query optimization
- 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

ORGANIZE | Software Developer

Mar 2016 - June 2016 | Los Angeles, CA

- Developed the backend system for an Android Application that manage a todo list for users
- Used Java and Android Studio to contribute the front end design for the application