

## Stephen Z. Wang

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### EDUCATION

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#### Georgia Institute of Technology

Jan. 2019 – May 2021

*Master of Science, Computer Science, Specialization in Machine Learning*

#### University of California, Los Angeles

Sep. 2014 – June 2017

*Bachelor of Science, Mathematics of Computation*

### TECHNICAL SKILLS

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**Languages:** Python, Java, JavaScript, C/C++, HTML/CSS, SQL, Lisp, Scala, Bash, Matlab

**Frameworks:** TensorFlow, PyTorch, ScikitLearn, Caffe, Keras, SpringBoot, Maven, Vue.js, Node.js

**Developer Tools:** Git, Docker, Jenkins, SonarQube, Kubernetes, Linux

### EXPERIENCE

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#### Northrop Grumman Corporation, Defense Systems

Aug. 2017 – Present

*Software Engineer*

- Designed, developed, integrated, and tested software
- Determined user needs and analyzed system capabilities to resolve problems on program intent
- Architected, designed and developed advanced system and realize the concept into prototype or production system

#### United States Navy

Oct. 2014 – Present

*Machinist's Mate*

- Supported the 25th Rim of the Pacific Exercise, the world's largest international maritime warfare exercise
- Attended Pacific Blitz Exercise, scenario-driven joint Marine Corps replicating a realistic maritime threat
- Operated, maintained, and repaired propulsion machinery, auxiliary equipment in Coronado, San Diego

### PROJECTS

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#### Common Control System Processing, Exploitation, and Dissemination

Oct. 2019 – Present

- Built a single control station that can use PED services to obtain sensor imagery/FMV files from Unmanned Systems across Aviation, Surface, Sub-Surface, and Ground domains worked with Raytheon for PMA-281 under Naval Air System Command (NAVAIR)
- Implemented DevOps services in C++ and deployed on Docker with integration testing of Jenkins, SonarQube, GCov and etc. on Linux OS in the agile development scrum team

#### Real-time data for Coronavirus (COVID-19)

Apr. 2020 – May 2020

- Real-time data of COVID-19 cases in the U.S. simply and intuitive visualization
- Implement and designed a website in VueJS and visualize the map with real-time data in D3.js
- Fetch, clean, and deal with data from a real-time database

#### Cost of Buying/Renting Algorithm

Oct. 2019 – Dec. 2019

- The Cost of Buying/Renting Algorithm (COBRA) to help home-seekers process the overwhelming amount of data points involved in buying or renting a home to make an optimal decision
- Designed and implemented front-end web client application on Pyramid framework with D3.js in Python

#### Electronic Warfare Battle Management

Apr. 2018 – Oct. 2020

- Developed a full-stack web application using a REST API and WebSocket with Vue.js and Node.js
- Designed and built spring boot application using Maven in Java for CRUD type operations of data
- Implemented critical abstraction layer (CAL) using ActiveMQ and RabbitMQ to implement Java Messaging Service (JMS) to publish and subscribe RTI DDS server
- Deployed front-end and back-end applications to Tomcat server on different OS VMs