

# 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*

## 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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- Hateful Memes Detection** Jan. 2020 – May 2021
- Used FasterRCNN and object detection algorithms (Detectron) extracted image features
  - Fine-tuned and trained four different multi-modal NLP transformer architecture ensemble, Visual BERT, ViLBERT, RoBERT baseline models, and replace encoders in Colab GPU
  - Implemented soft and hard ensemble learning methods to produce joint predictions from best performing models to achieve high accuracy in Pytorch and Sklearn
- Common Control System Processing, Exploitation, and Dissemination** Oct. 2019 – Dec. 2020
- 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 of Kubernetes with integration testing of Jenkins, SonarQube, GCov and etc. on Linux OS in the agile development scrum team
- Electronic Warfare Battle Management** Apr. 2018 – Oct. 2019
- 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

## 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