

Vivian Tan

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Education

Bachelor of Science in Electrical and Computer Engineering

August 2014 - May 2018

Computer Architecture and Embedded Systems

The University of Texas, Austin

Skills

- Familiar with Python, Java, C/C++, MATLAB, JavaScript, and L^AT_EX.
- Experience with Jupyter Notebook, Google Colaboratory, and collecting data via crowdsourcing (Figure-Eight).
- Experience with Git, Regex, Jenkins/TravisCL, ROS, Linux, REST APIs, NodeJS, HTML, CSS, and MySQL.

Experience

- **Software Engineer, IBM Watson IoT** *Sep 2018 - Current*
 - Contributes to AI enablement through development of virtual assistants
 - Designs and implements virtual assistants using Watson Assistant (NLU/NLP)
 - Orchestrated crowdfunded training data collection and analysis for natural language models
- **Cognitive Software Developer Intern, IBM Watson IoT** *Jun 2017 - Aug 2017*
 - Worked in an Agile team of 7 to develop an automotive sales demo of a beta version of Watson Assistant for Automotive
 - Tested, verified, and trained behavior of machine learning systems (Watson Assistant)
 - Wrote 230 tests to validate application in JavaScript with 93% code coverage in addition to testing in Python
- **Hardware/Software Intern, Apple** *May 2016 - Aug 2016*
 - Worked with advanced lab equipment to gather and analyze 4D data in MATLAB for future work in automotive simulation
 - Programmed a GUI application in C/C++ to consolidate and convert data
 - Compiled results and information in documentation and presentations

Projects

- **CARSTOP: CW/CA System Development, The University of Texas at Austin/TXDOT** *Sep 2017 - Apr 2018*
 - Worked with a team to develop a collision warning/prediction system using camera, LIDAR, and C++/Python, and open source software like OpenCV
- **EE 445L Project: Smart Weather Alarm Clock, The University of Texas at Austin** *Oct 2016 - Nov 2016*
 - Designed and build an alarm clock that connects to Wi-Fi and emails the user using Twilio API
 - Designed PCB layout and assembled prototype device using soldering and various circuit parts
 - Video demo: <https://tinyurl.com/viviantandemo1>
- **Video Game Project: "Song Sliders," The University of Texas at Austin** *May 2015*
 - Designed and created interactive game with partner using TI Launchpad micro-controller and various circuit parts
 - Programmed music based game in C that implemented a DAC, ADC, and more

Accomplishments/Other

Leadership: VP of Corporate Relations, Women in Electrical and Computer Engineering (WECE), *Spring 2017*;
Historian, Women in Electrical and Computer Engineering, *Fall 2015 - Spring 2015*

Volunteer: Teaching English and other humanitarian work in Cambodia (Summer 2017), Explore UT, Introduce a Girl to Engineering Day, Cap 10K, InterHigh Youth Volunteer Teacher at Vietnamese Unity Baptist Church

Other: Avid photographer, Austin Marathon/Half Marathon Finisher, Acted in front of a live audience (700+ people)