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 LaTeX.
- 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)