Yitao (Gary) Wu

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EXPERIENCE

Cisco Systems June 2015- Aug 2015

Signal Integrity Engineer Intern

- Developed test plans for automated hardware testing using Python.
- Performed high-speed testing for cisco switches (FPGA) in the company laboratory.
- Operated oscilloscope for signal integrity probing and eye pattern reading.
- Soldered designated electronic components according to PCB designs (allegro PCB editor).

Sanlogic at the Yangtze Delta Region Institute of Tsinghua University June 2016- Aug 2016

Research Assistant – Computer Vision

- Developed 360 ° panorama camera solution for company's new product.
- Used OpenCV to perform panorama image stitching (Harris, SIFT, SURF, RANSAC).
- Provided written research report for company's future use.

North Carolina State University Tutorial Center Aug 2013- Dec 2014

Tutor

- Tutored fellow undergraduate students in Calculus and Physics.
- Developed strong communication and leadership skills.

RELEVANT PROJECTS

AI Financial Decision Assistant (Tensorflow, tflearn, nltk, sqlite3) July 2018- Aug 2018

- Performed text classification to categorize users' questions into six topics and respond accordingly.
- Integrated semi-supervise learning, saved high confidence result (higher than 0.8) for future training.
- Saved low confidence result (lower than 0.5) to perform unsupervised learning, to create new topics.
- **Achieved 91%** accuracy by training neural network model using tfleran.

Twitter Sentiment Analysis (Tensorflow, keras, scikit-learn, Matplotlib, Numpy) Aug 2017- Dec 2017

EE 542 Internet and Cloud Computing

- Developed Python application to perform opinion mining, using Twitter streaming API.
- Integrated TextBlob (Naïve Bayes) to classify emotion attitudes behind texts.
- Utilized Amazon Web Service (EC2, S3, elastic beanstalk) to finish the learning process.
- **Achieved 80%** accuracy by training Recurrent neural network model using keras.

Car Rider Line Management System (Java, SQL, Android Studio) Aug 2015- May 2016

ECE 485 Senior Design

- Led a team to create a system that aim to reduce parents' waiting time when they pick up children at school.
- Developed Android application for user end to display the current waiting queue.
- Managed database to store RFID tag information, for identifying the approaching vehicle.
- Soldered RF reader (RS232) circuit to detect parents' vehicle at the school gate

EDUCATION

University of Southern California Jan 2017- May 2018

Master of Science. Electrical Engineering Program

- Relevant coursework: Pattern Recognition, Artificial Intelligence, Probability for Engineering.

North Carolina State University Aug 2012- May 2016

Bachelor of Science. Electrical Engineering, Computer Engineering (Double Major)

- Relevant coursework: Object-Oriented Programming, Embedded Systems, Industrial Robotic Systems.
- Graduation with Honor*:* Dean's List.

SKILLS

- Programming: Python, SQL, CSS, HTML, JavaScript, Java, Matlab, C, C++, Verilog.
- Tools: Jupyter Notebook, Django, GitHub, PyCharm, AWS, Eclipse, Android Studio, Hadoop, Microsoft Office.
- Languages: English, Mandarin Chinese (native), German.
- Other skills: Machine Learning, Convex Optimization, Control System Design, Signal Processing.