Simon Fong

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Education

University of California San Diego | La Jolla, CA   Jan 2020 - Dec 2020
Master of Science, Electrical Engineering: Machine Learning and Data Science

University of California San Diego | La Jolla, CA   Sep 2015 - Jun 2019
Bachelor of Science, Electrical Engineering: Machine Learning Depth
GPA 3.08

Work Experience

Google | Incoming Software Engineer Intern   Fall 2019
Clover Network | Incoming Software Engineer Intern   Summer 2019
UCSD ECE Department | Lab Tutor   Jan 2018 - Dec 2018
Python, Keras, OpenCV, Flask, Javascript, AWS
- Created a REST API to make image inferencing more reliable.
- Mentored 10+ students on the Face Recognition lab and their proposed projects.

Amazon Robotics | Software Development Intern   Jun 2018 - Sep 2018
Python, SCons, Docker, AWS Batch, EC2, ECS and S3
- Prototyped a build system to reduce computations for machine learning using parallelized computation.
- Collaborated with research scientists to integrate their workflows into our system.
- Created a majority of unit and integration tests.

UCSD ECE Department | Research Intern | Team Lead   Apr 2017 - Feb 2018
Python, C++, AWS, Dragonboard 410c, Sensors
- Developed a Coursera course about using single board computers in Internet of Things applications.
- Created lab assignments that focus on sensor integration and Amazon Web Services.

Projects

SolarCar Website
- Revamping the website for a cleaner experience.

FUSION Website
Javascript, jQuery, React, Bootstrap 4
- Designed the website to create a more modern experience.

Subtle Asian Dating Score Test | Over 20,000 visits
Javascript, React, Python, Flask, MongoDB, Nginx, AWS EC2
- Within 4 hours, created and deployed a quiz in Javascript scores your dateability.
- Developed a Flask backend that logs each quiz submission to a MongoDB database.

Not-Kiwi-Bot
- Trained a Keras model to drive a small car within the lanes on a test course defined by markers on the ground.

SD Hacks 2017 | 1st Place
Python, Tensorflow, OpenCV
- Re-trained Inception V3 to recognize items that are put inside the fridge using

Skills

Languages: Python, C/C++, Arduino, Java, Javascript, HTML, CSS
Frameworks/Libraries: Tensorflow, Keras, OpenCV, Flask, jQuery, React, Bootstrap 4
Tools: MongoDB, Git, Amazon Web Services, Docker, Nginx, GDB, Valgrind

Leadership

IEEE UC San Diego | Outreach Chair | Project Space Chair   Jun 2017 - May 2018
- Planned, marketed, and executed circuits and computer programming outreach events with a reach of 100+ youth.