Simon Fong

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Education

University of California San Diego | Starting January 2020   Graduating Dec 2020
M.S. Electrical Engineering
University of California San Diego   Graduated Jun 2019
B.S. Electrical Engineering

Work Experience

Google | Software Engineer Intern | Google Cloud Platform   Sep 2019 - Present
Python, Django, PolymerJS, MySQL, Protocol Buffers
- Replaced deprecated PolymerJS v1 components with v2 components so that the application still runs in the future.
- Developing a dynamic selector component using Javascript and making a backend endpoint using Python.

Clover Network | Software Engineer Intern | E-Commerce   Jun 2019 - Aug 2019
Python, Flask, HTML/CSS/Javascript, ReactJS, Typescript, Java, MySQL, Maven
- Built a full-stack application as a proof-of-concept to test newly built E-Commerce APIs.
- Developed a Python SDK to ease the adoption of the E-Commerce platform for an estimated 1400+ developers.
- Created a component to add Google Pay support, doubling the market of possible users for an upcoming feature.

UCSD ECE Department | Face Recognition Tutor   Jan 2018 - Dec 2018
Python, Keras, OpenCV, Flask, Javascript, AWS
- Created a REST API to make image inferencing more reliable, debuggable, and accessible by web applications.

Amazon Robotics | Software Development Intern   Jun 2018 - Sep 2018
Python, SCons, Docker, AWS Batch, EC2, ECS and S3
- Prototyped a build system to cache computations for large data applications using parallelized computation.
- Collaborated with research scientists to integrate their workflows into our system.

UCSD ECE Department | Research Intern | Team Lead   Apr 2017 - Feb 2018
Python, C++, AWS, Dragonboard 410c, Sensors
- Developed a Coursera course teaching how to build Internet of Things applications from sensors to leveraging AWS.
- Lifetime enrollment of over 48,000 students.

Projects

Subtle Asian Dating Score Test | subtleasiandating.org
Javascript, ReactJS, Python, Flask, MongoDB, Nginx, AWS EC2
- Within 4 hours, created and deployed a quiz in Javascript that scores your dateability and received over 20,000 visits.
- Developed a backend that logs each quiz submission for further data analysis of users.

SD Hacks 2017 | tinyurl.com/simon-sd-hacks
Python, Flask, MongoDB, Tensorflow, OpenCV
- Re-trained Inception V3 to recognize items that are put inside the fridge for the goal of reducing food waste.
- Won 1st place out of 97 submissions.

FUSION Website | fusionhhdc.org
Javascript, jQuery, ReactJS, Bootstrap 4
- Designed and built the website to create a more modern experience for over 500+ attendees.

Skills

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

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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.