

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

Work Experience

Google | Incoming Software Engineer Intern | Google Cloud Platform

Fall 2019

Clover Network | Software Engineer Intern | E-Commerce

Jun 2019 - Present

Python, Flask, HTML/CSS/Javascript, Java

- Built a full-stack application as a proof-of-concept to test newly built E-Commerce API's.
- Developing a Python SDK to ease the adoption of the E-Commerce platform for an estimated 1400+ developers.
- Found, reported, and fixed bugs in various parts of the E-Commerce service.

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, debuggable, and accessible by web applications.
- Mentored 10+ students on the Face Recognition project and their final projects.

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.
- 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 teaching how to build Internet of Things applications from sensors to leveraging AWS.
 - Lifetime enrollment of over 48,000 students.
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Projects

Subtle Asian Dating Score Test | subtleasiandating.org

Javascript, React, 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, 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, React, Bootstrap 4

- Designed and built the website to create a more modern experience for over 500+ attendees.
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Skills

Languages: Python, C/C++, Java, Javascript, HTML, CSS, Arduino

Frameworks/Libraries: Flask, jQuery, React, Bootstrap 4, Tensorflow, Keras, OpenCV

Tools: MySQL, MongoDB, Docker, Amazon Web Services, Git, 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.