

# Simon Fong

(707) 853-8018 | [simonfong6@gmail.com](mailto:simonfong6@gmail.com) | [github.com/simonfong6](https://github.com/simonfong6) | [linkedin.com/in/simonfong6](https://linkedin.com/in/simonfong6) | [www.simonfong.me](http://www.simonfong.me)

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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 3.13

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## 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.
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## 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
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## 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

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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.