

# 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)

---

## Education

**University of California San Diego, La Jolla**

Sep 2019 - Jun 2020

*Master of Science in Electrical Engineering: Machine Learning and Data Science*

**University of California San Diego, La Jolla**

Sep 2015 - Jun 2019

*Bachelor of Science in Electrical Engineering: Machine Learning Depth*

GPA 3.18

---

## Work Experience

### [Lab Tutor](#)

Jan 2018 - Present

UC San Diego

Python, Keras, OpenCV, Flask, Javascript, AWS

- Created a REST API to make image inferencing faster and more reliable.
- Mentored 10+ students on the Face Recognition lab and proposed projects.

### **Software Development Intern**

Jun 2018 - Sep 2018

Amazon Robotics Team in Seattle, WA

Python, Sphinx, SCons, Docker, AWS Batch, EC2, ECS and S3

- Implemented a build system to reduce computations for machine learning using parallelized computation.
- Collaborated with research scientists to integrate their work into our system.
- Created majority of unit and integration tests.

### [Research Intern](#)

Apr 2017 - Feb 2018

UC San Diego, Team Lead of 3 Students

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

### [Yonder Dynamics](#)

Sep 2017 - Jun 2018

Mars Rover Team

Python, Flask, Arduino

- Developed the backend for the control panel.
- Designed and implemented the communication interface to control the motors.

### [Not-Kiwi-Bot](#)

Apr 2018 - Jun 2018

- Trained a Keras model to drive a small car within the lanes on a test course defined by markers on the ground.
- Designed and implemented GPS waypoint navigation with crash avoidance.

### [Automated Robotic Arm](#)

Oct 2017 - Nov 2018

- Developed an algorithm to command a robotic arm to fetch an object.
- Created a web application backend and frontend for manual control of the arm.

### [SD Hacks 2017: Bubble Wrap Ice Box 3000](#)

Oct 2017

1st Place / 97 Teams

Python, Tensorflow, OpenCV

- A smart fridge that recognizes what you put inside using a re-trained a neural net.

### [Sign-In UCSD](#)

Jun 2017 - Sep 2017

Nginx, Python, Flask, MongoDB

- Developed a sign-in system that uses school ID cards to allow for efficient data collection and tracking at school events.
- 

## Skills

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

**Frameworks/Libraries:** Tensorflow, Keras, OpenCV, Flask

**Tools:** MongoDB, Git, Linux, Amazon Web Services, Docker, Nginx, REST, JSON, 3D Printing, Fusion 360, Laser Cutting


---

## Leadership

### [IEEE UC San Diego Outreach Chair](#)

Jun 2017 - May 2018

- Planned, marketed, and executed circuits and computer programming outreach events with a reach of 100+ youth.

 Means it is a link you can follow to learn more about the experience.