

Simon Fong

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Education

University of California San Diego: M.S. Electrical Engineering

Graduating Dec 2020

University of California San Diego: B.S. Electrical Engineering

Graduated Jun 2019

Experience

Flexport | Software Engineer Intern | Cloud Infrastructure

Jun 2020 - Sep 2020

Ruby, Terraform, Bash, AWS: EC2, RDS, S3, Lambda

- Enabled parallelism for the Terraform build pipeline by storing build artifacts on S3 for much faster builds.
- Developed Lambdas to restore production databases to the demo environment for 26+ third-party companies.
- Upgraded our infrastructure and packages to use a secure version of the AWS metadata service to improve security.

Google | Software Engineer Intern | Google Cloud Platform

Sep 2019 - Dec 2019

Python, Javascript, Django, PolymerJS, MySQL

- Replaced deprecated PolymerJS v1 components with v2 components for an internal tool used by 100+ employees.
- Created database tables, backend, and frontend components to collect data to enable auto-scheduling of 900+ events.

Clover Network | Software Engineer Intern | E-Commerce

Jun 2019 - Aug 2019

Python, Flask, Javascript, ReactJS, Typescript, Java, MySQL, Maven

- 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 the Scan2Pay feature.

UC San Diego | 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, S3

- Prototyped a build system to run repeatable versionable batch jobs for the robotics data lake.

UC San Diego | Research Intern | Team Lead

Apr 2017 - Feb 2018

Python, C++, AWS, Dragonboard 410c, Sensors

- Made a Coursera on integrating embedded projects and AWS with a lifetime enrollment > 48,000 students.
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Projects

Subtle Asian Dating Test | subtleasiandating.org

Javascript, ReactJS, Python, Flask, MongoDB, Nginx, AWS EC2

- Created and deployed a quiz that scores the user's date-ability, received over 20,000 visits.

SD Hacks 2017: 1st Place / 97 teams | uwu.run/go/sd-hacks

Python, Flask, MongoDB, Tensorflow, OpenCV

- Re-trained Inception V3 to recognize fridge items to reduce food waste.

UwU Links | uwu.run

Python, Flask, Google Firestore, Javascript

- Created a short links service to provide meaningful URLs to organize my personal life, over 4,000 hits so far.

FUSION Website | uwu.run/go/fusion

Javascript, jQuery, ReactJS

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

Personal Infrastructure

Terraform, Bash, Kubernetes, Docker, Nginx, Buildkite, GitHub, AWS: EC2

- Created a CI/CD pipeline to run tests and deploy services on AWS triggered by Github events.
 - Integrated Kubernetes and Buildkite to allow for rolling deploys, scalability of containers, and portability.
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Skills

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

Frameworks/Libraries: Flask, Django, jQuery, ReactJS, PolymerJS, Tensorflow, Keras, OpenCV

Tools: SQL, MongoDB, Docker, Amazon Web Services, Nginx, Kubernetes