

# Sam Yu

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## SKILLS

**Programming Languages:** Python, JavaScript (ES6), TypeScript, SQL, C++, C, HTML, CSS, Bash

**Frameworks / Tools:** React, Node.js, Express.js, Flask, Django, PostgreSQL, Docker, Kubernetes, Google Cloud Platform, AWS, MongoDB, Redux, Unix, REST API, Pandas, jQuery

## EXPERIENCE

**Apple - Software Engineering Intern, Cupertino, CA (Remote)**

**Jun 2020 – Aug 2020**

*Python, Flask, JavaScript, PostgreSQL, SQL, Docker, Pandas*

- Transformed the analysis of over \$3 billion dollars' worth of AppleCare cases by spearheading the development of an interactive data analysis tool using SQL, Pandas, and Chart.js
- Doubled efficiency of engineering team by designing and implementing an internal collaborative project management tool using Flask, jQuery and PostgreSQL
- Implemented an automatic data delivery pipeline for over 5 million rows of CSV data using Python, cron jobs via APScheduler, and PostgreSQL
- Integrated coworker suggestions in collaborative meetings while adapting to first-ever virtual internship

**Webveloper - Software Engineer, San Francisco, CA (Remote)**

**Dec 2018 – Present**

*JavaScript / ES6, React, Node.js, Express.js, Google Cloud Platform, Docker, Kubernetes*

- Accelerated site deployment speeds by 70% through implementing fully customizable React components to autonomously generate site demos based on customer input
- Reduced cloud infrastructure costs by 90% through creating a Kubernetes cluster-wide SQL database proxy and RabbitMQ messaging queue
- Reduced microservice development costs by 30% through migrating the local development environment to a remote Kubernetes cluster
- Improved SEO by 40% for over 150 customers by revamping the site hosting infrastructure in Google Cloud Platform

**Sourcedfact.com - Software Engineer, Contract, Toronto, ON**

**Sep 2019 – Feb 2020**

*Python, Django, JavaScript, React, Vagrant, Jupyter*

- Designed an algorithm to increase the detection speed of credible Reddit users by 200% using Python Reddit API and Google Colab's Jupyter notebooks
- Redesigned the user signup feature using REST API development and Sendgrid API, increasing the signup of credible fact checkers by 20%

**OnCall Health - Full Stack Software Engineer, Intern, Toronto, ON**

**May 2019 – Aug 2019**

*Python, Django, SQL, PostgreSQL, REST API, JavaScript, React, AWS*

- Increased small business signups by 30% through building a self-serve signup page with React and an API with Django REST framework
- Built an analytics dashboard displaying administrative data of 30000 patients through chart.js visualizations and PostgreSQL database queries

## PROJECTS

**WaterlooWorks Skill Search - API / Web Client**

*Node.js, Express.js, MongoDB, Mongoose.js, React, Redux, AWS*

Built a full stack web app that parses jobs from the University of Waterloo's co-op job portal and presents personalized job postings

**Guidin' George - SMS Application**

*Python, Django, Twilio API, PostgreSQL, Google Maps API*

Developed an SMS application that provides navigational directions without the need for an internet connection

## EDUCATION

**University of Waterloo - Bachelor of Computer Science**

**Class of 2023 (Expected)**

**Relevant Coursework:** Data Structures & Algorithms, Operating Systems, Database Management, User Interfaces