Sam Yu

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SKILLS

Languages: Python, JavaScript, TypeScript, SQL, C++, C, Java, HTML, CSS, Bash
Tools: React, Node.js, Express.js, Flask, Django, PostgreSQL, Docker, Kubernetes, AWS, MongoDB, Redis, Unix

EXPERIENCE

Wish - Software Engineering Intern, Data & Relevancy (San Francisco, CA)   Jan 2021 – Apr 2021
- Increased **gross merchandise value (GMV) by 10%** through introducing merchant products in the product feed via A/B tests using **Tornado** web server and **MongoDB**
- Implemented data automation pipelines with **Python** to process and optimize over **$1 billion** of ad spend via **Hive SQL** queries on **Hadoop** data stores
- Improved **return on ad spend** (**ROAS) by 20%** through migrating **over 10,000** merchants from generic ad campaigns to customized ad campaigns via automated **Python** scripts and **Facebook Graph API**

Apple - Software Engineering Intern (Cupertino, CA)   Jun 2020 – Aug 2020
- Transformed the analysis of over **$3 billion dollars** worth of AppleCare cases by developing an interactive data analysis tool using **SQL**, **Pandas**, and **JavaScript Canvas API**
- Increased efficiency of engineering team **by 80%** 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**

Webveloper - Software Engineer (San Francisco, CA)   Dec 2018 – Dec 2020
- Accelerated site deployment speeds **by 70%** by building customizable **React TypeScript** components and **Express.js** APIs on a **Node.js** server to autonomously generate site demos based on customer input
- Reduced development costs **by over 60%** by designing and implementing tooling for deploying local **Docker** container changes to remote **Kubernetes** clusters hosted on **Google Cloud Platform**

Sourcedfact.com - Software Engineer, Contract (Toronto, ON)   Sep 2019 – Feb 2020
- Increased fact checking efficiency **by 40%** by detecting live fact checking activity with **Django** and caching user activity with **Redis**

OnCall Health - Full Stack Software Engineer, Intern (Toronto, ON)   May 2019 – Aug 2019
- Built an analytics dashboard displaying administrative data of **over 30,000** patients with **React** visualizations, **Django** Rest Framework and **PostgreSQL** database queries

PROJECTS

WaterlooWorks Skill Search - Node.js, Express.js, MongoDB, React, Redux, AWS
Web app that parses jobs from the University of Waterloo's job portal and presents personalized job postings

Guidin' George - Python, Django, Twilio API, PostgreSQL, Google Maps API
SMS application that provides navigational directions without the need for an internet connection

EDUCATION

University of Waterloo - Bachelor of Computer Science (Co-op)   Sep 2018 - Apr 2023
Relevant Coursework: Algorithms, Networks, Artificial Intelligence, Security, Machine Learning, User Interfaces