Sam Yu

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EDUCATION

University of Waterloo - Bachelor of Computer Science (Co-op)

Sep 2018 - Apr 2023

Relevant Coursework: Algorithms, Networks, Artificial Intelligence, Security, Machine Learning, Databases

SKILLS

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

EXPERIENCE

Uber - Software Engineering Intern, Maps Engineering (Boulder, CO)

Sep 2021 – Present

• Led the design and implementation of an automated map data validation pipeline written in **Java** to increase the reliability of over **30 million navigation requests per day**

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 - Aug 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