

Sam Yu

Github: samyu | LinkedIn: yu-sam | Email: sm5yu@uwaterloo.ca

SKILLS

Languages: Python, JavaScript, Java, TypeScript, SQL, C++, HTML, CSS, Bash

Tools: React, Node.js, Flask, Django, PostgreSQL, Docker, Kubernetes, AWS, MongoDB, Kafka, Unix, Redux

EXPERIENCE

Instagram - Front End Engineering Intern (New York, NY) May 2022 – Aug 2022

- Led the implementation of a new Instagram web search engine results page which increased **search time spent by 200%** in collaboration with a cross-functional search team
- Increased **video watch time by 12%** and **explore page time spent by 38%** by integrating short form video reels on the Instagram Web explore page
- Improved the search experience for over **50 million Instagram users** by launching free-form query support using **React, Redux and Flow**

Uber - Software Engineering Intern, Maps Engineering (Boulder, CO) Sep 2021 – Dec 2021

- 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**
- Reduced routing errors **by 10%** by building a system to target incorrect geospatial map data stored in **Apache Thrift** based on the frequency of trips in the area
- Created an **engineering requirements document** for a cross-functional distributed data processing pipeline in collaboration with engineering and product teams

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

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**

Webveloper - Software Engineer (San Francisco, CA) Dec 2018 – Aug 2020

- 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**

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

EDUCATION

University of Waterloo - Bachelor of Computer Science (Co-op) Sep 2018 - Apr 2023

Relevant Coursework: Algorithms, Networks, Artificial Intelligence, Big Data, Distributed Computing, Databases