

Sophie Yang

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Education

University of Waterloo, Bachelor of Software Engineering

Sept 2021 - April 2025

Technical Skills

Languages: C++, JavaScript, Typescript, Python, HTML, CSS, SQL, PHP, C, Java

Technologies: React, Flask, Node, Express, PostgreSQL, MySQL, MongoDB, AWS, Git, Docker, Bootstrap

Work experience

Tradable Bits | Software Engineer Intern

Sept - Dec 2023 | Vancouver, BC

- Implemented features and improvements to the business dashboard using **Javascript, Python, Flask, PostgreSQL, Docker**, and **Nginx** to help sports and music brands perform fan and campaign data collection and analysis
- Created a ticket sales graphical visualization and analysis platform that retrieves ad campaign metrics from social network integrations and compares queried and filtered data against baseline campaign metrics, used by **700+** users
- Spearheaded development of an automated pipeline to collect and push ticketing data to Spotify's API with **OAuth**, pull generated reports from **AWS S3**, and parse the data to calculate offline conversions and revenue, projected to improve targeted advertising algorithm and increase ad campaign revenues by **\$12,000+/year**

AlertDriving | Software Engineer Intern

Jan - Apr 2023 | Remote

- Created a new user credentials management workflow with **PHP** and **MySQL**, resulting in an improved user experience and streamlined data handling infrastructure
- Improved the password encryption and decryption algorithm by implementing **salted hashing algorithm**, reducing risk of password cracking by **70%**
- Developed automated scripts to generate weekly user reports using **Python** and **SQL**, saving **30+ hours/month**

Signode Canada | Software Engineer Intern

May - Aug 2022 | Toronto, ON

- Led development of an order processing system using **Node.js, Express.js**, and **MongoDB**, used by **1,300+** employees to update and track purchase orders
- Automated purchase order processing by creating a PDF data extraction program using **Python**, achieving **>99%** accuracy and saving **125+ hours/month** by eliminating manual data entry
- Developed an order tracking portal and optimized search bar algorithm by implementing advanced querying, increasing data retrieval speeds by **15x**

Projects

Impact Without Contact | React, Javascript, Bootstrap, Firebase

- Founded **federally registered COVID-relief NPO** with **1,100+** volunteers across **85+** cities, brainstorming and leading **35+** volunteer initiatives for sectors impacted by the pandemic
- Developed organization website and volunteer portal, reaching **800+** monthly users and allowing volunteers to find personalized opportunities and filter searches based on their availability, location, and skills
- Secured **\$7,200+** in sponsorships and grants from accredited organizations such as **Cetaphil** and **Figma** and featured on publications including **Global News, Toronto Star, Canada's National Observer**, and **Yahoo Life**

Feeding Canadian Kids | React, TypeScript, Python, Flask, GraphQL, MongoDB, Docker

- Collaborated with a team of 12 designers and developers to build a volunteer signup platform for Feeding Canadian Kids, a charity organization devoted to addressing childhood hunger and food insecurity
- Created workflow for processing meal requests and dashboard for displaying food delivery schedules