

Jeffrey Liu

jeffrey.liu@uwaterloo.ca | linkedin.com/in/liu-jeffrey | github.com/liu-jeffrey | jeffrey-liu.me

EDUCATION

University of Waterloo | Bachelor of Computer Science Sep 2017 - Apr 2022
Wilfrid Laurier University | Bachelor of Business Administration Sep 2017 - Apr 2022

EXPERIENCE

Wish | SWE Intern | San Francisco, CA, US Sep 2021 - Dec 2021

- Built a new user flow using **Python**, **React** and **Redux** for refunded orders by creating new mobile-friendly pages and modifying relevant APIs, improving the user experience for **~300k** refund cases monthly
- Contributed to the development of an internal admin tool using **React** and **MongoDB** to allow business users to adjust shipping time estimates, reducing the lead time from **days to minutes**

Splunk | Backend SWE Intern | San Jose, CA, US Jan 2021 - Apr 2021

- Developed a **Django** API using **RabbitMQ** which allows users to dynamically change logging levels in server clusters from the UI, simplifying the middleware debug process for clients
- Implemented automated serialization and deserialization of system command payloads during shutdown and start-up using **C++** and **PostgreSQL**, preventing the loss of critical security data

Autodesk | Research Intern | Toronto, ON, Canada Jan 2020 - Apr 2020

- Engineered front-end features using **Typescript** and **D3.js** for a web-based data-visualization project used by **10,000+** employees worldwide to visualize Autodesk's organizational structure
- Created collapsible data sections using key-frame animations which improved page load times by **75%** resulting in a smoother UX
- Built a new front-end file-upload feature for the project using Dropzone.js and D3.js which allows users to import custom data into the project

Qualcomm | SWE Intern | Toronto, ON, Canada Jan 2019 - Apr 2019

- Designed and implemented a developer tool in **Python** to automate the process of isolating accuracy differences between **Caffe2** or **TensorFlow** neural network models
- The tool reduced engineering time to locate differences in models by **500%**, saving developers **15+** hours for each model comparison
- Wrote **Python** scripts for specific image-classification models to automate the model training process for developers

PROJECTS

UW Blueprint | Senior Developer Jan 2021 - Apr 2021

- Collaboratively built an interactive [online platform](#) using **ReactJS** and **SWR** to visualize stories written by immigrant and refugee women, for The Shoe Project, a non-profit organization

TECHNICAL SKILLS

Languages | Python • Typescript • JavaScript • C++ • C • Java • Bash • SQL

Technologies | ReactJS • Redux • MongoDB • Django • Caffe2 • TensorFlow • Redux • Git • PostgreSQL • D3.js • SWR