

Jeffrey Liu

Full Stack Developer

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

EXPERIENCE

Wish | Software Engineering Intern | San Francisco, CA, US | Sept 2021 - Present

- Developing a new user flow using **Python**, **Typescript** and **Redux** for refunded orders
- Contributing to the development of an internal tool using **JavaScript** and **MongoDB** to allow business users to easily adjust shipping time estimates

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

- Developed a **Django** API using **RabbitMQ**, allowing users to dynamically change logging levels in server clusters from the UI, making it easier for clients to debug the program middleware
- Implemented automated serialization and deserialization of system command payloads during shutdown and start-up using **C++** and **PostgreSQL**, reducing the loss of critical data during shutdowns

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

- Developed features using **Typescript** and **D3.js** for a web-based data-visualization research project used by **10,000+** employees worldwide to visualize Autodesk's organizational structure
- Implemented 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 using **Dropzone.js** and **D3.js** which allows users to import custom data into the project

Qualcomm | Software Engineering Intern | Toronto, ON, Canada | Jan - 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 running on different engines
- 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 - the Shoe Project | Jan - Apr 2021

- Collaboratively built a mobile-responsive online platform for non-profit organization, The Shoe Project, to present stories written by immigrant or refugee women using **React (Typescript)** with **LeafletJS** to visualize stories on an interactive map
- Developed a content-management table using **React-virtualized** for performant UI and **SWR** to cache back-end

TECHNICAL SKILLS

Programming Languages:

Python •
Typescript/JavaScript •
C++/C • Java • Bash • SQL •
VBA

Technologies:

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

EDUCATION

University of Waterloo |

Bachelor of Computer

Science |

Sep 2017 - Aug 2022

Wilfrid Laurier University |

Bachelor of Business

Administration |

Sep 2017 - Aug 2022

ACHIEVEMENTS

Term Dean's Honour List |

University of Waterloo |

2020-2021 |

Completed Spring 2020, Fall 2020, and Spring 2021 terms with averages above 87%

Alexa Skills Challenge

Finalist | Amazon |

2020 |

Won \$5,000 as one of the top 10 submissions out of 130+ projects that successfully used Alexa Conversations