

Jeffrey Liu

Full Stack Developer

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EXPERIENCE

Wish | SWE Intern | San Francisco, CA, US

Sep 2021 - Present

- Building a new user flow using **Python**, **Typescript** and **Redux** for refunded orders by creating mobile-friendly pages and modifying relevant APIs
- Contributing to the development of an internal tool using **JavaScript** and **MongoDB** to allow business users to easily adjust shipping time estimates

Splunk | Backend SWE Intern | San Jose, CA, US

Jan - Apr 2021

- Developed a **Django** API using **RabbitMQ** which allows 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

- Engineered 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
- 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 - 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 | Senior Developer

Jan - Apr 2021

- Collaboratively built a mobile-responsive **online platform** with seven other developers and two designers for non-profit organization, The Shoe Project
- The platform uses **React (Typescript)** with **LeafletJS** to visualize stories written by immigrant and refugee women on an interactive map
- Engineered 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 - Apr 2022

Wilfrid Laurier University |

Bachelor of Business
Administration |

Sep 2017 - Apr 2022

ACHIEVEMENTS

Term Dean's Honour List |

University of Waterloo |
2020-2021

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