

# Jeffrey Liu

Computer Science and Business Double Degree Student

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## Work History

### Intern, Autodesk Research

Autodesk Inc.

Jan-Apr 2020

- Developed features using **Typescript** and **D3.js** for a web-based data-vis research project used by **10,000+** employees worldwide to help users understand Autodesk's organizational structure
- Implemented collapsible data sections using key-frame animations, improving page load times by **75%** and thus providing a more seamless user experience
- Built a new front-end file-upload feature using **Dropzone.js** and **D3.js** which enables users to import custom data into the project, allowing them to tailor the project to better meet their needs

### Software Engineering Intern, AI – Machine Learning

Qualcomm Inc.

Jan-Apr 2019

- Build from scratch 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
- Created additional **Python** scripts to automate model training

### Content Data Management Specialist

FGF Brands

May-Aug 2018

- Created **SharePoint** sites using **HTML/CSS** and **Bootstrap** to use as temporary data warehouses for **8000+** build of materials data
- Improved company ETLs by implementing **SQL queries** and **Excel VBA** macros which optimized the process efficiency by **300%**
- Developed company-wide training documents and videos to improve employee proficiency with **SAP S/4HANA**

## Projects

### Listen-up | Deltahacks VI

React, TypeScript

January 2020

- Web-app that listens to a conversation and uses **Google Cloud's Natural Language API** to record important facts and key takeaways
- Built a **React** interface using **Typescript** which fetched real-time recording data from our **Firebase** database

### MoodCensus | UofTHacks VII

React, JavaScript

January 2020

- Data-vis project that determined a dominant mood for weekly Billboard Top 100 songs using the **Spotify Web API**, and plotted the moods over the year
- Developed the **React** app that fetched the Billboard Top 100 songs data from Firebase and plotted it using ApexChart.js

## Technical

### Programming Languages

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

### Frameworks

Caffe2 • TensorFlow • React • Vue.js

### Technologies

Git • JIRA • D3.js • Confluence • SharePoint • SAP S/4 HANA • VSCode • Photoshop • InDesign • Figma • Google Firebase

## Education

### University of Waterloo

Candidate for Bachelor of Computer Science | 2017-2022

### Wilfrid Laurier University

Candidate for Bachelor of Business Administration | 2017-2022

## Achievements

### New Venture Semi-Finalist

Wilfrid Laurier University | 2018  
Successfully created a business model which placed top 32 out of 300 teams

### RBC Stock Market Competition

Wilfrid Laurier University | 2018  
Achieved top 30 stock portfolio returns out of 300+ participants

### Faith Leadership Award

YCDSB | 2017  
Rewarded to 2 graduating high school students who demonstrated leadership and social responsibility

## Hobbies

Weight training • Meal-prepping • Hiking • Bubble Tea • StarCraft 2 • Valorant