Jason (Jianxing) Zhang

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Experience

Sunnybrook Research Institute | Focused Ultrasound Lab

Software development Intern

July 2018 - August 2018

- Used 3D convolutional neural networks to classify ambiguous acoustic data in Python with mxnet, improving classification accuracy from 57.35% to 97.69%
- Created graphical user interface in MATLAB to increase efficiency and robustness of labelling data

Software development Intern

July 2017 – August 2017

- Doubled efficiency by automating the 2D data labeling process using MATLAB
- Applied transfer learning techniques to **alexnet** (pre-trained neural network) to classify images, achieving an overall classification accuracy of **92.43%** using **MATLAB**'s Machine Learning Toolbox

Computer Science Club | Earl Haig Secondary School

Vice President

Sept 2017 – May 2018

- Explained complex deep learning and machine learning concepts to beginners in weekly meetings
- Organized club activities and weekly meetings with others administrative club members

Side Projects

Robin Hood | IOS-Android Hybrid App

March 2019

- Created using Flutter as a donation service that connects donors to recipients directly
- Features multiple user interfaces, connection to Firebase and Microsoft Azure's computer vision API

Coordinate ++ | IOS application

April 2018

- Created using **Swift** as an organization tool to plan a student's life in **Xcode**
- Designed and developed the app interface and a final grade calculator

Tank o' Duel | Python game

May 2017

- 2 player tank game made with the **Pygame** library
- Map generation and score keeping based on file IO

Skills

- Languages: Python, C++, MATLAB, Swift
- Technologies: Git, SVN, Xcode, LINUX OS

Certifications

- CCNA2 Routing and Switching: Routing and Switching Essentials Certification
- CPA: Programming essentials in C++ Certificate

Education

University of Waterloo

Expected: 2023

Honours Computer Engineering