

Andrew Brown

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Computer Engineer fluent in several programming languages. MAsC Candidate at the University of Toronto, supervised by Professor Jonathan Rose. Currently researching Natural Language Processing Conversational Agents applied in a smoking cessation environment. Passionate about Software Engineering, Data Science, and Machine Learning.

Education

University of Toronto, Toronto, ON Class of 2023
Candidate - MAsC, Computer Engineering

Queen's University, Kingston, ON Class of 2021
BAsC, Computer Engineering - First Class Honours

Technical Skills

Programming: Python, MATLAB, C, Java, JavaScript (Node/React)

ML/AI: NumPy, Pandas, Scikit-Learn, PyTorch/Keras/TensorFlow

Database Management: SQL

Cloud Stack: Amazon Web Services (Boto3), Google Cloud

Applications: Jupyter Notebook, Docker, Git, VMWare

Experience

Teaching Assistant University of Toronto
Toronto, ON January - April 2022

- Winter Term Laboratory Teaching Assistant for Faculty of Engineering and Applied Science
- Course: APS 105 - Computer Fundamentals (C programming)
- Gave Plenary Lecture for 150+ undergraduate students

Research Associate University of Toronto
Toronto, ON May - August 2020

- Supervised by Mathew Hildebrand with Professor Steven Waslander
- Multimodal Object Detection with Uncertainty Analysis - Application for Autonomous Driving
- Pre-processing and Post-processing for Deep learning models - Python

Teaching Assistant Queen's University
Kingston, ON September - December 2019

- Fall-term Tutorial Teaching Assistant for Faculty of Engineering and Applied Science
- Course: APSC 143 - Introduction to Programming for Engineers: C and MATLAB

Recent Projects

Fake Face Detector (Python/OpenCV) (<https://github.com/andrewmbrown>):
Using OpenCV and Python, detect a set of real faces vs a set of fake image ones.

Facial Recognition Defence System (Python) (<https://github.com/jeffm9500/Capstone>):
Using ArUco wearable markers, detect humans and protect their faces from live facial recognition systems.

Interests

Squash, Tennis, Guitar, Fishing, Swimming (Bronze Cross, First-Aid CPR), Travel