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EXPERIENCE

Teaching Assistant

September 2019 - April 2020

University of Toronto

- Teaching assistant for Principles of Programming Languages and Neural Networks and Machine Learning
- Ran 3 weekly tutorials for 120 students, helping students review key concepts
- Conducted practicals for students, guiding students through sets of instructions and supervising them as they worked on the lab

Research Assistant

🛗 January 2020 - April 2020

University of Toronto

- Used **PyTorch** to train a self-driving car that navigates using visual input and imitation learning from an expert human driver
- Performed literature survey to look into the possibility of attacking self-driving cars by adding malicious noise on billboards/traffic signs

PROJECTS

Course Crunch

H January 2020 - April 2020

Web Application

- Developed a React web application that gives course recommendation for students and various other services
- Designed **REST**ful backend **microservices** enabling user's schedule to be stored persistently in an online database
- Worked in a group of 7, following the **scrum** and **agile** development processes to develop efficiently
- Tech stack: MongoDB, Express, React, Node.js, PostgreSQL, Neo4j

Reinforcement Learning AI

August 2019

PyTorch Project

- Trained an AI that learns to play the Atari game, Breakout, by recreating the classic *Human Level Control through Deep Reinforcement Learning* paper
- Experimented with various optimizations such as Prioritized Experience Replay, Fixed Target Networks and Double DQN

Exam Scanner

Ctober 2018

Python Script

- Used **OpenCV** and **scikit-learn** to read student information from exam covers, then upload each student's test to their own repository on MarkUs
- Reduced the amount of time for professors and teaching assistants to input grades from 30 minutes to 1 minute
- Currently used by the Mathematical and Computational Science department to scan term tests and exams

EXTRACURRICULAR

Big Data & AI Case Competition

January 2020 - April 2020

Scotiabank and Institute for Management & Innovation at the University of Toronto

- Detected human trafficking by analyzing abnormal bank transactions
- Used a variational autoencoder to perform unsupervised learning for classification
- Achieved a finalist finish

EDUCATION

H.B.Sc. in Computer Science

University of Toronto

Sept 2016 - April 2020

Cumulative GPA: 3.58 Major GPA: 3.75 Final Year GPA: 4.00

Departmental Honors Roll 2019 - 2020 Dean's list 2019-2020

Relevant Coursework

Machine Learning & Data Mining

Neural Networks & Deep Learning

Reinforcement Learning

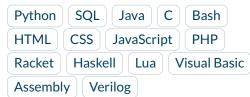
Computer Vision

Web Development

Software Engineering

TECHNICAL SKILLS

Programming Languages



• Library & Frameworks



Other skills

Git Linux Latex Scrum Agile

AWS GCP

aws 📀

certified

Machine

Learning

Specialty

CERTIFICATION

