

MY DUC TRAN

EMPLOYMENT

Okta Inc

Software Engineer Intern (Full Stack) - OIN DAX Team

Toronto, ON
May 2022 to Aug. 2022

- Developed an end-to-end platform for app catalog editor additions in ISV Portal.
- Implemented a new UI component with Quick Search API.
- Improved the current workflow from one per week update to hourly update.
- Tech: Java, DropWizard, Backbone.js, REST API, MySQL, Agile, Jira, Git

DRW Holdings, LLC (NDA)

Software Developer Intern

Montreal, QC
May 2021 to Aug. 2021

- Built NLP model for automated Trading Simulator in New Flow Team (NSA).
- Tech: Tensorflow, Kedro, Docker and Ray

PROJECTS

Empirical Assets Pricing via Machine Learning

Sept. 2021 to Dec. 2021

- Study the relationship between stock index factors and the corresponding premium stock return over time using regression and machine learning models.
- Proved that linear regression with Huber Loss outperformed Neural Network and achieved state-of-the-art test error at around 2%.
- Supervisor: Prof Yi Yang, McGill University

AI 4 Good Lab

Apr. 2021 to June 2021

- Used Logistics Regression and SGD Classifier model to predict Autoimmune Disease flare-up in that day based on user data
- Worked on React app to gather user data about food, weather, exercise time, etc...

MNIST Digit Recognizer

Dec. 2020

- Built a classic CNN model to recognize handwritten digit with an accuracy of **99.7%**, **top 100 in Kaggle Competition**.
- Created a web demo for the client to predict their handwritten digits or with uploaded images using **Tensorflow and Javascript**.
- demo: mytran2111.github.io/DigitRecognizer_web_demo/

MAIS 202 - Kaggle Competition 1st place

Nov. 2020

- Worked on MNIST problem to find the maximum of multiple digits in 2D images.
- Built CNN model and work on **Grid Search CV** and **Data Augmentation** to achieve **accuracy of 97.9%**.
- Wrote final proposal to demonstrate the process and the model architecture.
- source code: MNIST_Max-digits

WEB WHITEBOARD - Code Jam Hackathon 3rd place

Nov. 2020

- Created a virtual whiteboard to reduce the challenge for students to attend online schooling.
- Built website by **Javascript, HTML, CSS and p5.js** for 2D graphics.
- demo: mytran2111.github.io/Code-Jam-2020/

CONFERENCE

Deep Conservative RL for Personalization of Mechanical Ventilation Treatment ·
Published at RLDM 2022, winner of University of Toronto Artificial Intelligence Conference 2022

- Preprocessed MIMIC III dataset of over **50,000 patients** using MySQL and Pandas.
- Implemented LSTM Autoencoder to encode patients' historical data with lab values and demographics.
- Implemented DeepVent, the first Conservative RL model to customize ventilation treatment.
- Awarded winner of Project X organized by UoT with the **highest score among 25 papers** submitted.
- Tech: Pandas, Pytorch, MySQL, AWS, d3rply.

AWARDS

UoT AI · Winner of Project X Machine Learning Competition - Clinical Practice Cohort

Feb. 2022

The winning team of Project X - International AI Conference

"Six McGill Undergrads win UoT international artificial intelligence competition" - The McGill Tribune (March 2022)

"Undergrad team uses machine learning to create a better hospital ventilator" - McGill Reporter (March 2022)

Edward W Beatty Scholarship

Renewable scholarship for top 10% students in Mathematics, awarded for all semesters (2019-2022)

Tomlinson Engagement Award for Mentoring

Aug. 2020

Mentor for Linear Algebra I.

Net X Technology Case Competition 2021 · Honorable Prize Notos Technologies

Mar. 2021

Strategized and implemented a NN model that lengthens drone flight times and saves critical battery life based on weather and wind real-time data.

UK Mathematics Trust · Gold Medal in United Kingdom Senior Mathematical Challenge

Dec. 2018

Invited to first round for British Mathematics Olympiad

Leadership

VP Finance - Competitive Programming at McGill

Apr. 2021 to Current

- Managing financial expenses and budget as well as sponsor packages for our events.
- Organized Tech Games, the biggest tech challenge in McGill with 100++ signups.
- Worked with sponsors from IMC, CAE, Deloitte,...

CONTACT

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EDUCATION

McGill University

2019 to 2023

B.Sc Statistics & Computer Science

CGPA : 3.96/4.0

SKILLS

PROGRAMMING LANGUAGES

Python

Java

OCaml

R

HTML

JavaScript

CSS

MySQL

C

Hibernate

OpenAPI

ML/AI

Pytorch

Tensorflow

Scikit-learn

Pandas

Numpy

Keras

Kedro

Docker

DEVELOPMENT

Git

Agile

Jira

Confluence