

MY DUC TRAN

EMPLOYMENT

Okta Inc Toronto, ON
Software Engineer Intern (Full Stack) - OIN DAX Team 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, Javascript, REST API, My SQL, Agile, Jira, Git

DRW Holdings, LLC Montreal, QC
Software Developer Intern 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 · June 2021
Published at RLDM 2022, winner of University of Toronto Artificial Intelligence Conference to Feb. 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 UofT with the highest score among 25 papers submitted.
- Tech: Pandas, Pytorch, MySQL, AWS, d3rlpy.

AWARDS

UofT AI · Winner of Project X Machine Learning Competition - Clinical Practice Cohort Feb. 2022

"Six McGill Undegrad win UofT international artificial intelligence competition" - The McGill Tribune (March 2022)
"Undergrad team uses machine learning to create a better hospital ventilator" - McGill Reporter (March 2022)

McGill University · Edward W Beatty Scholarship Sept. 2019

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.

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 Aug. 2022

- 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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🔗 mytran2111

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