

MY DUC TRAN

EMPLOYMENT

Emma Assurance Vie Software Engineer Part-time <ul style="list-style-type: none">Tech: TypeScript, Angular.JS, Node.JS, NX, PostgreSQL	Montreal, QC Sept. 2022 to Current
Okta Inc Software Engineer Intern (Full Stack) - OIN DAX Team <ul style="list-style-type: none">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.Implemented Selenium Testing and performed frequent CI/CD testing.Tech: Java, DropWizard, Backbone.js, Javascript, REST API, My SQL, Agile, Jira, Git	Toronto, ON May 2022 to Aug. 2022
DRW Holdings, LLC Software Developer Intern <ul style="list-style-type: none">Built NLP model for automated Trading Simulator in New Flow Team (NSA).Tech: Tensorflow, Kedro, Docker and Ray	Montreal, QC May 2021 to Aug. 2021

PROJECTS

Empirical Assets Pricing via Machine Learning <ul style="list-style-type: none">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	Sept. 2021 to Dec. 2021
AI 4 Good Lab <ul style="list-style-type: none">Used Logistics Regression and SGD Classifier model to predict Autoimmune Disease flare-up in that day based on user dataWorked on React app to gather user data about food, weather, exercise time, etc...	Apr. 2021 to June 2021
MNIST Digit Recognizer <ul style="list-style-type: none">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/	Dec. 2020
MAIS 202 - Kaggle Competition 1st place <ul style="list-style-type: none">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	Nov. 2020
WEB WHITEBOARD - Code Jam Hackathon 3rd place <ul style="list-style-type: none">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/	Nov. 2020

CONFERENCE

Deep Conservative RL for Personalization of Mechanical Ventilation Treatment · Published at RLDLM 2022, Accepted at IAAI-23, Winner of University of Toronto Artificial Intelligence Conference 2022 <ul style="list-style-type: none">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.	June 2021 to Feb. 2022
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AWARDS

UofT AI · Winner of Project X Machine Learning Competition - Clinical Practice Cohort "Six McGill Undergrads 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)	Feb. 2022
McGill University · Edward W Beatty Scholarship Renewable scholarship for top 10% students in Mathematics, awarded for all semesters (2019-2022)	Sept. 2019
Tomlinson Engagement Award for Mentoring Mentor for Linear Algebra I.	Aug. 2020
UK Mathematics TrustGold Medal in United Kingdom Senior Mathematical Challenge Invited to first round for British Mathematics Olympiad	Dec. 2018

Leadership

VP Finance - Competitive Programming at McGill <ul style="list-style-type: none">Managing financial expenses and budget as well as sponsor packages for our events.Organized Tech Games, the biggest tech challenge in McGill with more than 100 signups.Worked with sponsors from IMC, CAE, Deloitte,...	Apr. 2021 to Aug. 2022
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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