

MY DUC TRAN

EMPLOYMENT

Amazon Web Services (AWS) Solution Architect Intern, Startup Team	Vancouver, BC May 2023 to Aug. 2023
<ul style="list-style-type: none">Developed a full stack decentralized application (web3) for Blockchain transaction on Ethereum networkDesigned a high-level architecture for three-tier application on AWSTech: JavaScript, React, web3, AWS services (EC2, Lambda, API Gateway, S3, Step Function, Dynamo DB, SNS, Amazon Managed Blockchain nodes)	
Bank of Montreal (BMO) - Capital Markets Global Markets Quant Analyst Intern	Toronto, ON Jan. 2023
<ul style="list-style-type: none">Team: Canadian Prime Finance - AnalyticsBuilt a comprehensive dashboard to analyze counterparties' exposure (key risk data for our clients)Automated analyzing process for Prime Brokerage daily report and Greek values calculation by sending daily emails.Tech: Python, VBA, C#, .NET, HTML, Bloomberg API, MySQL	
Emma Assurance Vie Software Engineer Part-time	Montreal, QC Sept. 2022 to Dec. 2022
<ul style="list-style-type: none">Worked on our new front-end version of the client and broker platform.Tech: TypeScript, AngularJS, NodeJS, NX, PostgreSQL	
Okta Inc Software Engineer Intern (Full Stack) - OIN DAX Team	Toronto, ON May 2022 to Aug. 2022
<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	
DRW Holdings, LLC Software Developer Intern	Montreal, QC May 2021 to Aug. 2021
<ul style="list-style-type: none">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
<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	
MNIST Digit Recognizer	Dec. 2020
<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/	
WEB WHITEBOARD - Code Jam Hackathon 3rd place	Nov. 2020
<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/	

CONFERENCE

Deep Conservative RL for Personalization of Mechanical Ventilation Treatment Published at IAAI-23, Poster presented in RLDM 2022, Winner of University of Toronto Artificial Intelligence Conference 2022	June 2021 to Feb. 2022
<ul style="list-style-type: none">Paper: https://arxiv.org/abs/2210.02552Preprocessed 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

Bank of Montreal · BMO Capital Markets Excellence Scholarship	Jan. 2023
Excellence scholarship for undergrads in recognition of achievements in school and community involvement,	
UofT AI · Winner of Project X Machine Learning Competition - Clinical Practice Cohort	Feb. 2022
<u>"Six McGill Undergrads win UofT international artificial intelligence competition"</u> - The McGill Tribune (March 2022)	
<u>"Undergrad team uses machine learning to create a better hospital ventilator"</u> - McGill Reporter (March 2022)	
McGill University · Edward W Beatty Scholarship	Sept. 2019
Renewable scholarship for top 10% students in Mathematics, awarded for all semesters (2019-2023)	
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
<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,...	

CONTACT

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EDUCATION

McGill University 2019 to 2023
B.Sc Statistics & Computer Science
CGPA : 3.97/4.0

SKILLS

PROGRAMMING LANGUAGES

Python
Java
Ocaml
R
HTML
JavaScript
CSS
C++
OpenAPI

ML/AI

Pytorch
Tensorflow
Scikit-learn
Pandas
Numpy
Keras

DEVELOPMENT

Git
Agile
Jira
Confluence
Docker
Database
OpenAPI