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SKILLS

Machine Learning Web Development Data Science & Analytics Algorithms & Data Structures Object-Oriented Programming Financial Modelling Public Speaking

TECHNOLOGIES

LANGUAGES

Java • Python • C++ • C# SQL • Matlab • Solidity

FULL STACK

JavaScript • NodeJS • React Angular • Mongo • AWS • .NET Flask • HTML5 • CSS3 • ¡Query

MACHINE LEARNING

Tensorflow • Scikit-Learn • Keras Jupyter Notebook • Pandas • D3

SYSTEMS

OSX • Linux • PC • Git • Bash

EDUCATION

WESTERN UNIVERSITY & IVEY BUSINESS SCHOOL

BESc - Software Engineering **HBA** - Business Administration April 2021 | London, ON

AWARDS

Top 10 Worldwide TechCrunch Disrupt 1st/1000 Hack the North (Finalist) 1st/400 Hack NYU (Startup) 1st/130 Waterloo EngHack (ML) 1st/130 Shopify Case Competition Finalist /55 Airbnb Consulting Comp

COURSEWORK

Algorithms (UC San Diego) Machine Learning (Stanford) Deep Learning (Google) Intermediate C++ (Microsoft)

ACTIVITIES

Private Pilot License Candidate Provincial Soccer Referee & Mentor RHHS Varsity Soccer Captain Canadian National Lifeguard RCM Grade 8 Pianist

EXPERIENCE

FIRMWATER INC | Full Stack Software Developer

May 2018 - August 2018 | Toronto, ON

- Crafted a React.js & RESTful API system using ES8 modular programming to automate client processing which cut monthly accounting time by 32%
- Deployed custom Youtube player in a .NET MVC LMS (e-learning platform) with SQL stored procedures & Node.js wrapper for user progress tracking

WESTERN UNIVERSITY | Machine Learning Researcher

June 2018 - Present | London, ON

- Working under Prof. J Yang to perform topology optimization on hyperbolic acoustic metamaterials using a pixel-wise image segmentation method
- Implemented a convolutional neural net in Tensorflow & Keras that correctly optimized macroscopic quantum wave propagation with > 99% accuracy

EMPLOYO.IO | Co-Founder, Lead Engineer

February 2018 - Present | Toronto, ON

- Launched a MEAN stack intern exclusive job board with an INSEAD mentor
- Engineered rule-based elasticsearch algorithm to save HR 90 minutes / hire
- Guided developer team to create a Word2vec job recommendation engine

NORTH SOUTH MANAGEMENT | Business Data Analyst

January 2018 – April 2018 | Toronto, ON

- Performed strategy pitches for TSE: BEER to bolster upcoming IPO value
- Reduced retail predictive model error by 40% with PCA & ridge regression
- Advised niche wine production (8% CAGR) via sklearn feature engineering
- Clustered 5000 product reviews with tf-idf & k means to drive sales strategy

PROJECTS

OURBLOCK () | Python / AWS / Solidity / D3

- Pitched serverless community safety solution at Disrupt SF18 to thousands
- Trained support vector machine to classify & rank crime with 97% accuracy
- Applied AWS Lambda, Ethereum, & Google Maps for real time data sharing

PHORMATICS () | Jupyter Notebook / Flask

- Computer vision gym trainer using pose estimation to critique workout form
- Designed custom cloud computing flask architecture with WebRTC stream

BATTLE TETROMINO () | Java

- Applied low-latency websockets to a multiplayer Tetris game & chat room
- Al trained with a **genetic algorithm** using supervised heuristic optimization

LEADERSHIP

FOUNDERS NETWORK | VP Education

Since Sept 2017

- Hosting workshops & writing curriculum on machine learning and other CS topics for hundreds of students as part of the largest tech club on campus
- Acquired \$11K from IBM / CIBC for Canada's largest tech case competition
- Authored case study by testing viability of IBM Watson using the Java SDK

COMMUNITECH | Campus Ambassador

Since May 2018

Directing the largest Canadian tech accelerator's Code to Win competition