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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

BESc - Software Engineering April 2021 | London, ON

Advanced Entry Opportunity to Ivey Business School for an Engineering & Business Dual Degree

COURSEWORK

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

AWARDS

Top 30 TechCrunch Disrupt SF 1st/400 Hack NYU (Startup) 1st/130 Waterloo EngHack (ML) 1st/130 Shopify Case Competition 4th/35 Western Engineering Comp Finalist /55 Airbnb Consulting Comp

ACTIVITIES

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

EXPERIENCE

FIRMWATER INC | Full Stack Software Developer

May 2018 - Present | 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)
- Created Node backend / SQL stored procedures for various SaaS products

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 job board w/ an INSEAD Startup Professor mentor
- Engineered rule-based elasticsearch algorithm to save HR 90 minutes / hire
- Guiding 3 developers to create a Word2vec model for resume classification

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 / Solidity

- Ethereum crime auditing system connecting civilians with police on AWS
- Trained Tensorflow crime classifier & filter using bag-of-words & stemming
- Applied A* & triangulation algorithms on Google Maps to plan safe paths

PHORMATICS () | Jupyter Notebook

- 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