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SKILLS

Machine Learning & Data Science Algorithms & Data Structures Computer Vision Full Stack Web Development Object-Oriented Programming Algorithmic Trading Public Speaking

TECHNOLOGIES

LANGUAGES

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

MACHINE LEARNING

Tensorflow • Scikit-Learn • Keras OpenCV • Pandas • D3.js

WEB TECHNOLOGIES

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

SYSTEMS

OSX • Linux • PC • Git • Bash

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

EDUCATION

WESTERN UNIVERSITY

BESc - Software Engineering April 2021 | London, ON Advanced Entry Opportunity to Ivey Business School for a 5 year Engineering & Business Dual Degree

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 Lifequard RCM Level 8 Pianist

EXPERIENCE

GOOGLE | Software Engineer Intern

Incoming Summer 2019 | Mountain View, CA

• Machine Learning models on Google Ads - Tensorflow, Python, C++, Go

WESTERN UNIVERSITY | Machine Learning Researcher

June 2018 - Present | London, ON

- Worked 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

June 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

FIRMWATER INC | Full Stack Developer Intern

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

NORTH SOUTH MANAGEMENT | Business Data Analyst Intern January 2018 - April 2018 | Toronto, ON

- Performed strategy pitches for TSXV: 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 supervised genetic algorithms on a multiplayer websocket Tetris AI

LEADERSHIP

MUSTANG CAPITAL | Quant Trading Analyst Since October 2018

• Developed smart beta trading strategies using Python for a \$230,000 fund

FOUNDERS NETWORK | VP Education Since September 2017

• Lead executive team in writing curriculum for machine learning workshops