Jake Nemiroff

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EDUCATION

Bachelor of Science, Honours Specialization Computer Science
Western University

09/2016 – Present   *Dean's Honour List (09/2019 - 09/2020)*

Thesis topic:
- Applying Autoencoders, a deep neural network to forecasting stock returns

WORK EXPERIENCE

Web Application Developer
Kinaxis

05/2019 – 09/2019   *Ottawa*
Supply chain management and logistics company

Achievements/Tasks
- Used TypeScript and React to build and design components used in RapidResponse, a web application designed to manage and optimize supply chains
- Fixed various logic and UI bugs
- Used jest to create unit tests for the React components created

Security Intelligence Operations Program Intern
The Bank of Canada

06/2018 – 09/2018   *Ottawa*

Achievements/Tasks
- Developed two web applications; an external contacts database, and an application to streamline the process of collecting and sorting external data used to develop trends on incidents that would affect Central Banks
- Wrote reports on specific technological developments affecting the banking sector; Primary audience was to those at the Bank of Canada and other central banks not in tech related positions

Business Representative
Great People Inside

07/2017 – 08/2018   *Ottawa*
Talent Management Company

Achievements/Tasks
- Collected contact information of managers at local companies, sent emails to sell a fully customizable assessment and Talent Management solution.

Camp Counsellor
RA Summer Camp

07/2017 – 09/2017   *Ottawa*

Achievements/Tasks
- Worked in a team to design, run, and supervise activities, communicated with parents. Developed skills to think and act quickly

TECHNICAL SKILLS

Python HTML CSS react typescript

Unix based systems C C++ Haskell Ruby

SQL PHP Pytorch Firebase

Google Cloud Platform Git Problem Solving

PERSONAL PROJECTS

Portfolio Tracker (04/2018 – 07/2018)
- Built a program on a raspberry pi to keep track of the prices of stocks contained in my portfolio, incorporating the Twilio API

Pub-Sub System (01/2019 – 04/2019)
- Developed a publisher-subscriber system as part of a team
- Learned about good developing practices, making use of software design principles/patterns

Algorithm Trading Bot (02/2020 – Present)
- Currently building an algorithmic trading bot in python that runs on the Google Cloud Platform
- This bot will make calls to the TD Ameritrade API and the Alpaca API to pull data on stocks to build and trade with real-time market data, respectively.

Tweets Tracker Web Application (04/2020 – Present)
- This project is a simple application built in React and running on Firebase hosting, making use of the FireStore cloud database and the Twitter API
- Users are able to subscribe/unsubscribe to features where they can track twitter data based on current events and location

INTERESTS

Trading Managing equity portfolios Finance

Machine Learning Quantum Computing

Back End Development Baseball Ultimate Frisbee

Guitar Best Buddies Club at Western University