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: Currently Ongoing

- Creating a neural network to analyze which parameters best predict the spreading of COVID-19 and other pandemics

WORK EXPERIENCE

Web Application Developer
Kinaxis

05/2019 – 09/2019   *Ottawa*

Supply chain management and logistics company

Achievements/Tasks

- Used React TypeScript 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 Java HTML CSS React

Typescript Unix based systems C C++

Haskell Ruby SQL PHP Pytorch

Firebase Google Cloud Platform Git

PERSONAL PROJECTS

Efficient Frontier (04/2018 – 07/2018)
- Built a script which generates the efficient frontier for an inputted portfolio of stock tickers

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

Turn Based Strategy Game (09/2019 – 01/2020)
- Developed a turn based strategy game as part of a team
- Learned about the principles and design patterns of object-oriented design using C++

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

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

Frontend Development Backend Development

Baseball Ultimate Frisbee Guitar

Best Buddies Club at Western University