Jake Nemiroff

jakenemiroff@gmail.com ✉

(613)-866-0530 📱

Ottawa 📍

jakenemiroff-webapp.web.app 🌐

linkedin.com/in/jake-nemiroff-32290690 in

github.com/jakenemiroff ⊙

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 convolutional graph neural network to analyze which parameters best predict the spreading of COVID-19 and other pandemics.
- As part of a team, we will be looking at the data obtained and try to develop a contact tracing model for detecting and controlling outbreaks on graphs.

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 | Javascript | React | Typescript | Unix based systems | C | C++ | Pytorch | Firebase | Git | SQL

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.

UC Berkeley AI Pacman Project
- This project is a Berkeley University assignment where I implemented depth-first, breadth-first, uniform cost, and A* search algorithms in Python.
- Classic Pacman is modeled as both an adversarial and a stochastic search problem. I tried to implement multiagent minimax and expectimax algorithms, as well as designing evaluation functions.

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.

INTERESTS

Trading | Managing equity portfolios | Finance | Machine Learning | Quantum Computing | Frontend Development | Backend Development | Baseball | Ultimate Frisbee | Guitar | Music | Best Buddies Club at Western University