

Tyler McEwen

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PROJECTS

BLOCKPOUR (YFI.BLOCKPOUR.COM)

- Cryptocurrency trade monitoring platform
- Written primarily using Javascript, React.js, Node.js, and PostgreSQL
- Gained an understanding of websockets, component based development, and database management

CLOUD HOSTED MACHINE LEARNING APPLICATION

- Machine learning application written using Python, Flask, HTML, Javascript, and CSS.
- Selected a dataset containing various characteristics of thousands of houses in California and their price, which was then cleaned, visualized, and stripped down to the most relevant columns using Jupyter Notebook and various Python data visualization packages.
- After training, testing, and tuning the selected machine learning model and providing a form for the user to interface with it to get price predictions, the application was then containerized using Docker and deployed to various services on the Google Cloud Platform.
- Some of the Google Cloud Platform services leveraged were Cloud SQL, App Engine, Compute Engine, and Kubernetes Engine.

PORTABLE FILE MANIPULATOR

- Written in C, the portable file manipulator allows the user to interface with a main menu and execute various file operations on their PC. Some of these operations include file creation, deletion, modification, relocation, and/or duplication.

CONWAY'S GAME OF LIFE

- Written using Kotlin with a GUI written in TornadoFX, this application implements Conway's game of life by defining a set of rules then allowing the program to evolve each iteration.

DOCUMENT SIMILARITY

- Written in Clojure, this application calculates the similarity of the text within 2 or more documents. The similarity is calculated using cosine similarity.

CURRENT EDUCATION

LAKEHEAD UNIVERSITY

Honors Bachelor of Science in Computer Science

Thunder Bay, ON

SKILLS/TECHNOLOGIES

LANGUAGES - Python, C/C++, PostgreSQL, Java, React.js, Node.js, Golang, Clojure, Kotlin

TECHNOLOGIES - Google Cloud Platform, Networking, Git, MS Office, Cisco network products

PROFESSIONAL EXPERIENCE

CITY OF EDMONTON
Network Analyst Intern

Edmonton, AB
January 2020 – September 2020

- Manage, plan, and apply the import of SSL certificates to the cities various internal network monitoring platforms
- Manage, schedule, and execute the migration of all capable network devices in production from SNMPv2 to SNMPv3
- Coordinate the incoming tickets ensuring that they are assigned to the appropriate person and completed in an effective and timely manner
- Create DNS entries, DHCP reservations, and assist in creating and/or modifying rules in the firewall
- Configure network devices such as routers and switches

TBAYTEL
Network and Server Technician Intern

Thunder Bay, ON
April 2019 - September 2019

- Provide technical assistance and support for incoming queries and issues related to computer systems, software, and hardware.
- Respond to queries entered in through ServiceDesk either in person or over the phone.
- Assist in the data center migration and annual infrastructure upgrades

MBI IT SERVICES
Lead IT Field Technician

Thunder Bay, ON
Contract from April 2018- June 2018

- Led and managed the deployment of all technological hardware used within my provisioned electoral district during the 2018 Ontario provincial election. Hardware included up to 4 laptops per voting location, a tabulator to read ballots, a printer and a scanner.
- Being the only technician assigned to the entire electoral district, it was my responsibility to unpackage hardware and prepare it to be sent to each voting location. The preparation included loading databases of eligible voters, applying a specific image to each laptop such that one acted as a server which fed updated information to the clients, and finally running various tests on each piece of hardware to ensure that faulty equipment was isolated and dealt with accordingly.
- Support all voting locations in my electoral district in the case of any technological disruptions.

SOFTSELL COMPUTERS
Computer Technician

Thunder Bay, ON
August 2017 - April 2018

- Provide exceptional customer service while troubleshooting and resolving customers technological issues
- Seek to understand the customers technological needs then recommend them products/components based on them
- Create, modify and update work orders based on the hours spent working on a customers issue while pricing in any components that were replaced