

Malcolm MacArthur

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📍 Edmonton, AB, Canada

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Education

University Of Alberta

BSc with Specialization in Computing Science

September 2016 - April 2021

Python SQL(SQLite3) Bash Git PyTorch Supervised Machine Learning

Reinforcement Learning C Cryptography Digital Image Processing

Robotics Programming (rospy) NLP Android Studio MATLAB

Various Web Technologies and Concepts

Work History

NTWIST - Edmonton, AB

Full Stack Software Developer (+ Team lead duties)

January 2021 - Present

- Perform the same duties as my intern position along with additional duties as listed below.
- Worked with a mining client to set up a production environment and gather data for our solution.
- Linked platform back-end with Azure services that some of our clients use.
- Set up CI/CD prototype for website platform.
- Interviewed summer intern candidates and provided input for the selection process.
- Effectively lead two software developer summer interns.
 - Improved the interns' code quality with code reviews.
 - Assigned work to them and enforced deadlines.
 - Helped them debug code when they got stuck.

Full/Part Time Software Developer Intern

June 2020 - December 2020

- Developed client platform(website) base using the MERN stack.
- Maintained high code quality and wrote back-end integration tests.
- Worked with team members to integrate analysis models and build screens to meet various client requirements.
- Set up the platform authentication and token authorization systems.
- Created and maintained documentation for features that I have implemented.

JavaScript React Node Python Express NoSQL(MongoDB) MS SQL Azure

Real Canadian Superstore - Edmonton, AB

Part Time Cashier

June 2015 - June 2020

- Awarded Employee of the month which has only been given a handful of times.

Side Projects

Web Parser and Stock Analysis Program

- I have created a large Python stock analysis program over the summer of 2018. There are two parts to this program, collection and analysis. The collection part involves collecting millions of data points from multiple sites and storing it in a SQLite database. The analysis part involves analyzing stocks based on the user's needs.

Python SQL(SQLite3) Web Scraping Multithreading Multiprocessing PyQt5

Remote Multiplayer Web Hosting

- I have set up and maintained multiple remote Minecraft and Valheim servers for my friends. All done with a cloud Ubuntu instance and bash commands.

Bash Ubuntu Cybera Computer Networking