

Brian Kibazohi

ELIGIBLE FOR J-1 VISA

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TOOLKIT

Key	Strong Intermediate
Languages	Python, C++, Linux, C, Java, JavaScript, Dart
Frameworks	Flask, Flutter, Pandas, Git, Angular, Tensorflow
Database	SQLite, Firebase
Hardware	Arduino, ROS, Raspberry Pi

Experience

Deloitte, Omnia AI

Ottawa, ON

DATA ENGINEERING ANALYST

May 2019 - Aug 2019

- Built **data pipelines** to transform data of up to **6 million records**. Feature extraction was performed on the organized data for training. This resulted to a successful machine learning model with 80% accurate trend predictions. Used **Python-Tensorflow-Pandas**.
- Developed an internal **data mining** tool with a co-worker that was specifically used to obtain online media data and perform **sentiment analysis** for successful **data analysis**. Implemented proper **data structures to improve program's run-time and space**. The program met **90%** of the software requirements. Used **Python-Flask-Pandas; Javascript**.
- Responsible for **communicating insightful data findings** concisely by leveraging data visualization tools, statistical knowledge and libraries such as **Tableau, Seaborn and Matplotlib** which proved to be highly effective.

Mathstronauts

Hamilton, ON

PROGRAM AMBASSADOR

Aug 2018 - PRESENT

- Verbally presented to over **1,500 students** in total, to-date, on the fundamentals of robotics and programming. Used my creativity to engage students with custom edited video and inspirational themed music. Increased sign ups by over 70%.
- Succeeded in introducing students to project-based learning by demoing cool projects using **Arduino and FreeCAD**. Resulted to great amusement from students.

Digital iceCloud

Toronto, ON

CO-FOUNDER / SOFTWARE DEVELOPER

Aug 2019 - Present

- Currently in the process of launching a **custom software development** company that mainly focuses on providing **web and app development solutions** for small businesses. Actively working on a web application for first client using **React**.

Projects

ezHealth

Hamilton, ON

McMASTER UNIVERSITY

Jan 2019 - Apr 2019

- Developed a program to generate customized grocery lists tailored to the user's diet plan, budget and store of choice. Project was completed in a team of five and was successfully tested with two stores i.e **Walmart and Food-basics**.
- Responsible for **implementing sorting algorithms, object oriented programming and software requirements specification** to improve run-time, design and overall efficiency of the program. The project received a **A+** in the Software Engineering Practice and Experience course.

Autonomous Robot Racer

Waterloo, ON

UNIVERSITY OF WATERLOO - ROBOTICS TEAM

Apr. 2018 - Dec 2018

- Designed, implemented and tested code (**C++**) for **BNO055 sensor** responsible for IMU detection (acceleration, orientation etc). The data was useful in debugging and improved the robot's performance by 80%.
- Took initiative to improve Robot's path prediction algorithm which increased its path prediction accuracy by **55%** in ROS simulation using **C++**.
- Assisted in **low-level programming for firmware of Encoder counter**, testing hardware and fixing mechanical/electrical bugs.
- Cleaned and improved entire Robot's Arduino code base, corrected methodological bugs and re-wrote documentation to improve efficiency, readability and robustness.

Education

Bachelor of Engineering - Software Engineering and Management

Hamilton, ON

McMASTER UNIVERSITY

Apr 2022

- **President's Award 02/2018**
- Course Work: **Data Structures and Algorithms, Intro to Software Development and Design, Principles of Programming (C)**
- External Relations Chair - **National Society of Black Engineers**
- Head Instructor - McMaster Artificial Intelligence Society