

Brian Kibazohi

ELIGIBLE FOR J-1 VISA

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TOOLKIT

Key	Strong Intermediate
Languages	Python, C++, Linux Go SQL, BASH, C, Java, JavaScript, Dart
Frameworks	Flask, Flutter, Pandas, Git, Angular, Tensorflow
Database	DB2, SQLite, Firebase
Hardware	Arduino, ROS, Raspberry Pi

Experience

TESLA

Palo Alto, California

SOFTWARE ENGINEERING INTERN

Jan 2020 - Apr 2020

- Expected to contribute towards **new front end features for Periscope, a data visualization builder** used by both energy tools and the vehicle.
- Will be working on **new front end features for Telescope, firmware upgrade and configuration tool** for energy products..
- Expected to contribute new features to **Powerdex, an elastic search instance** which is used for search and grouping of sites in Tesla's codebase.

DELOITTE, Omnia AI

Ottawa, ON

DATA ENGINEERING ANALYST INTERN

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.

EPOCH

Toronto, ON

SOFTWARE DEVELOPER - CONTRACT

Oct 2019 - Dec 2019

- Worked directly with the CTO to develop new features, fix bugs, and refactor existing code on both ends of EPOCH's React/Flask stack.** My primary contribution was spearheading the development of a major integration project with Slack Technologies - one of EPOCH's larger clients.
- Wrote a extensible foundation for the **bot's Flask (Python) backend**. Examples include **functions that compose content to be sent through the Slack API**, cron jobs that send content at specific intervals, and listener functions that respond to user activity.

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. Introduced students to project-based learning by demoing cool projects using **Arduino and FreeCAD**. Increased sign ups by over **70%**.

Projects

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.

Education

Bachelor of Engineering - Software Engineering and Management

Hamilton, ON

McMASTER UNIVERSITY

Apr 2022

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