

# Brian Kibazohi

ELIGIBLE FOR J-1 VISA

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## 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.

## 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

## 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