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.

EPOCH   *Toronto, ON*
SOFTWARE DEVELOPER   *Oct 2019 - Present*

- Responsible for building functional features and improving efficiency by writing high-quality reusable code that is used for the server-side web application logic as well as the integration of the front end using **Python-Flask, React**. Features were successfully added to projects.
- Collaborating with the front-end developers and other team members to establish objectives and design more functional, cohesive codes to enhance the user experience.

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

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**, **Global Experience Award**
- 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