BRIAN KIBAZOHI

Software engineering and Management student with great enthusiasm for emerging technology and innovation.

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EXPERIENCE

Data Engineering Analyst Intern **Deloitte, Omnia Al**

May 2019 - Aug 2019

Ottawa, Canada

- Built data pipelines to transform data of up to 6 million records and extract features for training that result to a successful machine learning model using Python-Tensorflow.
- Developed an internal data mining tool that was used to obtain online data and perform feature extraction for successful data analysis. The program met 90% of the software requirements.
- Responsible for communicating insightful data findings concisely by leveraging data visualization tools and libraries such as Seaborn and Matplotlib which proved to be highly effective.

Language/Tools: Pandas, SQLite, Flask, Javascript, Tensorflow, OpenCV, C++, Tableau.

Program Ambassador

Mathstronauts

Aug 2018 - Present

- Verbally presented to over 1500 students in total, todate, on the fundamentals of robotics and programming. Increased sign ups by over 70%.
- Succeeded in introducing students to project-based learning using **Arduino and FreeCAD**.

Co-Founder / Software Developer **Digital iceCloud**

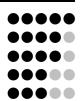
Aug 2019 - Present

♥ Toronto, Canada

- 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.

TOOLKIT

Python, C++, Linux Java, C, Dart Pandas, SQLite, Numpy Angular, Flask, Flutter Tensorflow, ROS, Matlab



ACTIVITIES

- External Relations Chair National Society of Black Engineers
- Head Instructor McMaster Artificial Intelligence Society.
- Intramural Basketball (Competitive)

EDUCATION

Software Engineering and Management (Co-op)

McMaster University

Hamilton, Canada

♀ Sept 2017 - Apr 2022

- President's Award 02/2018
- Data Structures and Algorithms
- Intro to Software Development and Design
- Principles of Programming

PROJECTS

Autonomous Robot Racer - I.A.R.R.C University of Waterloo - Robotics Team

Apr 2018 - Dec 2018 Waterloo, Canada

- Took initiative to improve Robot's path planner which increased its path prediction accuracy by 55% in ROS simulation using C++.
- Designed, implemented and tested code (C++) for BNO055 sensor responsible for IMU detection and debugging improving the robot's performance by 80%.
- 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 to improve efficiency and robustness.

Land_FIX N.S.B.E HACKS

🛗 Jan 2019 - Present

♥ Toronto, Canada

- Leveraged the power of IBM's blockchain API to create a data-record prototype as a way to combat corruption in Land Ownership management systems in Africa.
- Used HTML, CSS, Javascript and Google
 Maps API to construct a front-end visual representation of allocated territory for land.
- Used **Google Firebase** as a Database to efficiently store customer data.

Game of Life

Mar 2019 - Apr 2019 ♥ Hamilton, ON

• Implemented software design and objected oriented programming skills to develop the popular Game of life program using C++.