

MUYIDEEN JIMOH

mail4ayodele@gmail.com | 905-536-5547 | <https://github.com/JIMOHMA> | Cambridge, ON

EDUCATION

McMaster University, Hamilton, ON
B.A.Sc. Honours Computer Science

Completed June 2019

TECHNICAL STRENGTH

Programming Languages

Python, Java, C#, Haskell, JavaScript

Libraries

Pandas, NumPy, JSON, Seaborn, Matplotlib, Scikit-Learn

Development Environment

Jupyter Notebook, Eclipse, VS Code

Other Tools

GitHub, GitLab, MS Excel, MATLAB, MySQL, MS Access (Database)

WORK EXPERIENCE

Developer and Senior Support Technician (Full-Time)

Gmax Technology Ltd, Kitchener Ontario

Nov 2021 – Present

- Responsible for monitoring live racing systems across multiple racetracks in the UK and North America to ensure smooth operation of race servers, graphics systems, horse tracking devices and race timing devices
- Remotely monitor and actively responds to technical inquiries relating to horse finish times, accuracy of GPS times & live positioning, and integrity of hybrid eyes for generating time pulses
- Developed an algorithm using Python to speed up the process of filtering, searching, sorting log files containing critical information such as GPS timestamps, and Gmax Hybrid Eye timestamps if a system failure occurs
- Worked closely with third-party companies including Total Performance Data (TPD) and Equibase (EQB) to prepare and provide Excel Spreadsheets of accurate horse race times when requests such as start race time and finish race time from GPS system or Hybrids Eyes system are demanded at moment's notice.
- Facilitates the training and onboarding of junior technical support staffs, and involved in the continuous maintenance of race monitoring scripts used to carry out day-to-day activities to ensure the integrity of racing data generated

Software Automation (Part-Time)

Timberlea Interiors, Cambridge Ontario

June 2022 – Present

- Developed an application used to generate e-commerce wallpaper designs from multiple artists using Photoshop as the execution environment and JavaScript programming language to interface the different tools available within photoshop
- Worked closely with business owner, graphic designers, and marketing personnel to analyze business requirements and implementation of application to ensure accurate understanding of design layout of artworks, use-case of application being developed and the end-users within the company
- Improved efficiency and productivity of the end-users by completing 2 months' worth of work within a span of 1 week of using the application
- Creation of step-by-step documentation of how the developed automation tools are to be used

Content Migration Specialist (Contract)

Foresters Financial, Toronto Ontario

Feb 2020 – May 2020

- Responsible for migrating data (including CSV, Excel, JavaScript, and HTML and CSS files) from the company's old system to the new system hosted on the Igloo Software
- Successfully applied my knowledge of programming by writing python scripts to automate the process of downloading files from old system and sorting files based on their format before migrating the contents
- Python scripts implemented indeed sped up repetitive processes, hence increasing my productivity and task completion time by 65%
- Frequently kept track of work progress by updating Excel sheets with tasks commenced and completed which kept other teams updated on the progression of the project

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SOFTWARE PROJECTS

Gmax Hybrid Eyes Automation Tool (Python) | github.com/JIMOHMA/GmaxEyes May 2022 – July 2022

- Scripted a python algorithm using libraries such as `ftputil` and `JSON` to access remote files containing race data and extracted relevant information such as ID & Time Pulse(s) from Gmax Hybrid Eyes, Race surface configuration (i.e., Dirt, Turf, or Tapeta), and GPS timestamps in UTC time format which are stored in JSON formats
- Implemented a “race-failure” feature that detects patterns corresponding to system failure within race logs, which further uses GPS Times obtained from Gmax API calls as a benchmark in order to filter, sort and search for suitable start time & finish times generated by Gmax Hybrid Eyes
- Script implemented is being used daily by other support staffs which has streamlined investigation times at an exponential rate in the case of race failures or in the extraction of race times for hundreds of races at a time

Gmax Geofence Application (In-Progress) (Python Language) Feb 2022 – Present

- Obtained access to Gmax live racing data (generated from horse trackers) through the application of socket programming in order to signal remote Gmax support staffs about positions of horses within a geographical boundary and to ensure pre-race checks are completed, so any given race runs smoothly
- Filtered incoming data based on track ID, and extracted the longitude and latitude information from any given horse which are converted to cartesian coordinates to determine horse location at any given time if within the Geofence boundary
- Data processing is being done with python and using Google Earth API to visualize the Geofence boundaries at any given track and live position of horses for any given race

Neighborhood Analyzer (Jupyter Notebook) | github.com/JIMOHMA/location_Analyzer Nov 2020 – Nov 2020

- Developed an algorithm that can analyze any given location for specific interests like restaurants, gyms, libraries and then offer recommendations based on ratings and proximity of locations found
- Obtained data from two sources including Wikipedia for postal codes of neighborhood in Toronto and **Foursquare API** for **location data** about venues surrounding a specific location
- Implemented algorithm with the use of **Pandas**, **NumPy**, **Seaborn**, **Matplotlib** and **Scikit-Learn** libraries storing, cleaning, filtering and visualizing data for analysis and representation

Accident Severity (Jupyter Notebook) | github.com/JIMOHMA/USA_Accidents Sept 2020 – Oct 2020

- Created and presented a **machine learning** model that **predicts** the severity of an accident and **suggests** the estimated time to get through the traffic caused by an accident
- Outsourced dataset about the US countrywide accidents covering **49 states** with a record of **3.5 million** accident records
- Developed the machine learning model using the “**Random Forest**” **algorithm** and validated predications with an accuracy of 88%

Image Editor (C Language) | github.com/JIMOHMA/Photo_Editor Jan 2019 – Apr 2019

- Developed a program that automatically edits a photo by applying different filters as desired by a user
- Obtained meta-data and **R-G-B** color component of images by reading image pixels from a PPM files
- Designed application by adopting the concept of **multi-threading** to achieve **parallel execution** of the program
- Successfully optimized application with **CUDA** using both **CPU** and **GPU** resources for efficient and faster execution of the program

CERTIFICATES AND LICENSES

- **Applied Data Science Specialization** ([Link](#) to certificate by Coursera/IBM) November 2020
- **Applied Data Science Capstone** ([Link](#) to certificate by Coursera/IBM) October 2020
- **Data Analysis with Python** ([Link](#) to certificate by Coursera/IBM) September 2020
- **Data Visualization with Python** ([Link](#) to certificate by Coursera/IBM) September 2020
- **Python for Data Science and AI** ([Link](#) to certificate by Coursera/IBM) August 2020