Adrian Dizon

(289)-230-0159
adrian_dizon@hotmail.com
adrian-dizon
dizona
dizona.github.io

Education

McMaster University Graduated June 2023

B.A.Sc. Computer Science (Honours) CO-OP - Minor in Statistics *Summa Cum Laude - CGPA: 3.97/4.0*

Relevant Coursework: Data Structures and Advanced Algorithms, Discrete Math, Software Development

Skills

Language: Python, Java, JavaScript, Haskell, ELM, Ruby, HTML/CSS, Bash, R, C, Scala, Clojure, Pearl

Tools/Technologies: Git, Flask, SQL, Firebase, Linux, Matlab, Django, SVN, Jenkins, JIRA, Bitbucket, Confluence

Experience

Ciena January 2021 – December 2021

Systems Test Automation Software Development Co-Op | Python, JavaScript *Ottawa, ON (Remote)*

- Developed automation scripts and tools to test **7+** simulated and hardware RLS (Reconfiguarable Line Systems) photonic network systems using **Python, CLI, REST APIs and proprietary ROBO framework**.
- Optimized test cases resulting in an increase performance of up to **90%** by applying parallel testing solutions.
- Developed a photonic network shelf health checking tool to ensure that shelves are healthy before usage using **Python, Bash and REST API**
- Developed a prototype for automatically running tests after new build releases
- Created summary report page for test results using **JavaScript**

Projects

QueueTime (Back-end Developer)

- Co-Winner for **Best App** at McMaster 2023 Engineering Capstone Expo
- Mobile application that assists McMaster students and faculty by tracking wait times and occupation for various points of interests on campus including food, libraries and transit using GPS and crowd-sourcing
- Implemented **Python Flask** framework for the back-end request handling, **Swagger** for API structuring and documentation, and **Firebase** for hosting the database
- Developed **RESTful APIs** for communication between the front-end and back-end subsystems
- Implements authentication to secure APIs and encrypts user location data.

Titanic Challenge

- Data science machine learning (ML) competition where competitors use ML to create a model that predicts which passengers survived the Titanic shipwreck using Python.
- Uses various classification models such as decision trees, logistic regression, random forest, Bernoulli and Gaussian.

De-Tour

- A Java application developed by 5 students that implements Dijkstra's shortest path algorithm to help users plan the best route when visiting Toronto.
- Uses **100,000+** data points from yelp to form a graph of popular Toronto locations.

Speed Typer Web Game

- A full stack web application where the objective is to type as many words as possible in a given time frame
- Developed using **Elm** and **Django**.
- Uses an **SQLite** database to store user login information and high score

Deltahacks V Hackathon Intrathecal Pump Mobile Application

- Participated in Deltahacks V with 3 other members competing with over 20 teams to develop an application
- Developed a mobile application alerting patients to refill their intrathecal pump and connect them to their doctor using **Android Studio** and **Java**.

Extra-Curricular

McMaster SumoBots Club

Competitor - 3rd Place *Hamilton, ON*

- As a team of 4, design an autonomous fighting robot using mechanical, electrical, and software systems to challenge other robots.
- Designed a robot using **Arduino** and **AutoCAD**

McMaster AI Society

General Member *Hamilton, ON*

- Learn about artificial intelligence and machine learning using python and interactive workshops.