Arrun Patkunasingam

patkunaa@mcmaster.ca | 647 980 5564 | linkedin.com/in/arrun-p | github.com/arrunp/Projects

EXPERIENCE

FGF BRANDS INC | Software Quality Assurance Analyst
May 2020 – December 2020 | Toronto, ON

- Performing regression and black box testing to ensure in-house applications are in working order and report bugs if necessary, using the Azure DevOps Environment
- Implementing automated Performance Testing using Apache JMeter and Selenium reducing regression testing time by 80%
- Providing suggestions for making applications more user friendly while staying in line with software requirements

ROYAL BANK OF CANADA (RBC) | DevOps Engineer
January 2020 – April 2020 | Toronto, ON

- Increased the number of JIRA tickets solved by automation by 20% through improving and testing automation scripts (Python, TypeScript) to solve common issues that the Operations/Testing teams face
- Providing support for tools used by the Operations/Testing teams and documenting common issues and solutions using JIRA and Confluence
- Working on an agile release train to continuously provide users with upgrades to the scripts and tools that are currently in use

MCMASTER MARS ROVER TEAM | Vision Sub-Team
September 2019 – April 2020 | Hamilton, ON

- Using the OpenCV package in C++ and Python to allow the Mars Rover to detect items and obstacles using its camera input, aiding in autonomous travel
- Working with the Movement Sub-Team members to translate the detected obstacles and items from the vision input into what directions the Mars Rover should navigate itself

PROJECTS

BUG LOGGER – bugreporterapp.herokuapp.com | Python

- Used Python Django framework and PostgreSQL to create a web application where users can start projects, log bugs for these projects and provide comments/status updates as the issues are being dealt with – deployed using Heroku and AWS S3 (image hosting)

DICTIONARY TRANSLATOR | Python

- Used Tkinter and a dictionary set to make a dictionary application which can return a definition, provide a suggestion if a word is misspelled, or provide a translation to a definition using the Google Translate API

ROAD TRIP CALCULATOR | Java

- Used graphing algorithms (Dijkstra's algorithm on an Edge Weighted Digraph) to find the shortest path between two cities while keeping track of the cheapest fast-food options at each city on the route

MOTION DETECTOR | Python

- Created a motion detector using the OpenCV image processing library (Udemy follow-along project)

EDUCATION

MCMASTER UNIVERSITY
September 2017 – April 2022
Hamilton, ON
Bachelor of Engineering | Software Engineering Co-Op, 3rd Year

LANGUAGES

PROFICIENT

- Python
- Java
- HTML/CSS/JavaScript
- SQL

FAMILIAR

- C/C++
- Bash

LIBRARIES & FRAMEWORKS

- Django
- Node.js
- React.js
- Express.js
- OpenCV
- NumPy
- Scikit-learn
- pandas

OTHER TOOLS

- Git
- PostgreSQL
- Visual Studio
- Eclipse
- Jira/Confluence
- Azure DevOps
- Microsoft Office + Outlook

COURSES

- Data Structures and Algorithms (Java): A-
- Sftwr Eng. Prac. & Exp. (Java): A
- Databases: A