VERONICA CHIGOZIRI OBODOZIE

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SUMMARY OF SKILLS

Software Tools: NumPy, Pandas, SciPy, sci-kit learn, matplolib, Git, MS Office (Excel, Word, Powerpoint), Power BI
Programming Languages: SQL, Python, C, MATLAB, SIMULINK, and Visual Basic application (VBA)
Concepts: ETL/ELT, Modelling and Testing, Agile methodologies, Data Analysis, Post Implementation Verification, Quantitative Analysis, Data Visualization, Cloud Databases, Technical Documentation, Regression, Clustering, Statistics.

EDUCATION

IBM Data Science Professional Certificate via Coursera — Jan. 2021 – Mar. 2021
Bachelor of Engineering with distinction (Internship Year) — Sep. 2015 – Jun. 2020
Ryerson University– Toronto, Ontario

ACADEMIC PROJECTS

IBM Data Science (Data Analyst Student) — Jan. 2021 – Mar. 2021

- Designed, developed, and analyzed the overall cost of moving between African cities, highlighting location similarities, and living costs.
- Defined, documented, and developed control requirements using centralized databases. Executed analysis metrics.
- Utilized FOURSQUARE API, SQL, and BS4 python library to extract and clean-living cost data (data mining/web scraping) from a reliable source, analyze data and create in-depth report as can be seen in this blogpost.

Capstone: RyeTubeSat20 [Command and Data Handling (C&DH) Team Lead — Jan. 2020 – Apr. 2020

- Developed and Tested the C&DH system and GUI for the ground station of RyeTubeSat20.
- Built and executed protocols for data collection and conversion, communication sequence, and feedbacks between satellite systems.
- Designed and tested a GUI application for the ground station, protocols for data collection, communication.

Systems Engineering Project — Sep. 2019 – Dec. 2019

- Defined and designed system functionality based on the detailed business requirement with a team of six(6).
- Designed and manufactured a traffic pollution detection sensor package using Python to create the GUI, Arduino Leonardo, gas sensor, and altitude sensors, creating technical specifications.
- Ensured outlined requirements were validated through technical testing, documenting the functional, design, and system analysis performed.

WORK EXPERIENCE

Engineering Intern — Jul. 2018 – Aug. 2019
SAFRAN Landing Systems –Ajax, Ontario

- Collaboratively developed, tested, and validated tools; capture technical requirements, translate problems into predictive analytics, and communicate results to internal stakeholders.
- Developed analytical method to coordinate operations, improving schedule efficiency and workforce planning.
- Developed MACROs using Excel VBA to quantitatively validate GUI results; created and identified data sources.
- Increased team workflow efficiency by creating a feedback tracker and improved validation documentation.

Research Assistant — Sep. 2017 – Jul. 2018
Ryerson Space Avionics and Instrumentation Lab – Toronto, Ontario

- Improved existing MATLAB code by conducting tests on gearing/stepper ratios of motors and testing acceleration and speed limits using the tuff-tilt inclinometer to ensure proper calibration of mount.
- Compiled and analyzed test results using MATLAB and Microsoft excel to compare data trends.
- Maintained GUI code, Mount code and test data in a git repository and produced detailed reports test results, analysis, problems encountered, and steps taken to resolve them.