Jonathon Steeves

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Education

Carleton University, School of Computer Science — Ottawa, Ontario
Bachelors of Computer Science, Honours, Minor in Economics — 2018 - Current

- CGPA: 3.3 / 4.0

Skills

Programming Languages: Python, C, C++, Java, JavaScript, HTML, CSS/Bootstrap, Git, SQL

Data Science and Machine Learning: Scikit-Learn, Numpy, Pandas, Matplotlib, Seaborn, Jupyter labs

Frameworks and tools: ReactJS, ETL-Development, Data Integration, Data Structures, Systems Programming, Selenium Web Scraping, General Scripting, MongoDB, QTCreator

Experience

Shared Services Canada

Student Software Developer, Enterprise Data Integration Division — July 2021 - Current

- Contributing to the federal government's IT infrastructure through technical development of the operational data store, focussing on data integration and data mining methods.
- Designed and developed a data ingestion solution using **python**, **mariadb,** and **SQL** queries, to automate the extraction of data from various sources with different schemas into consolidated tables, to be added to the data lake, helping streamline the creation of further **ETL pipelines**.
- Built a web scraping system using **python**, **selenium**, and **SQL** queries, to validate existing IT asset record details and extract missing information about its warranty.

Projects

Pathfinding Algorithm Visualiser - Github

- Used popular **python** libraries such as **Pygame**, **Tkinter** to create a user interface.
- Practiced implementing different node based search algorithms by creating individual classes for each element of the program. Algorithms include, Depth First Search, Breadth First Search and A*.

Cranial Electrotherapy Stimulation Simulation Group Project - Github

- Collaborated with a team of four to create a system to simulate a cranial electrotherapy session, managed workflows using **Git**.
- Designed the CES system using **Agile modeling** methods to effectively document the system requirements.
- Implemented the system using object oriented software design patterns in **C++**, leveraging the **QT Creator** to make the programs GUI.

Activities

CU InSpace Volunteer Rocket Recovery Team - Github

- Currently collaborating with an aerospace student to design and create the parachute recovery system for the Carleton Universities rocketry team.
- Developing a software solution to run embedded within the constraints of an **arduino nano**.
- Writing the program using **C**, that will read altitude data from a barometric sensor, then release the parachute at the appropriate height, in order to ensure a safe and accurate landing.