Dominic Bolton

Aspiring software developer with a background in physics.

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Coding Languages:
Python
JavaScript
HTML5
CSS3
C

Education

University of British Columbia — BSc. Physics (2021)

Skills

Technical Skills:

- Python (NumPy, Qiskit, Matplotlib, Tkinter, PyGame etc.)
- JavaScript, HTML, CSS
- C
- Experienced with coding environments such as Visual Studio, Anaconda and Jupiter Notebook.
- Machine learning knowledge (gradient descent, classification and regression)

Soft Skills:

- Able to apply high level mathematics to a wide variety of problems.
- Excellent communication skills.
- Team player.
- Data analysis.
- Self motivated.

Projects

PyGame Projects:
Various projects coded in python using the PyGame module. PyGame allows for creation of a simple interactive GUI useful for coding arcade-style games.I built a simple air-hockey game and a 2-D many-body gravity simulator, both code files are available on my GitHub.

Report Card Command-Line App:
I created a command-line application that took several csv files, each with different information on a student's test scores, the tests and how much they were worth, which classes each student is taking etc. and outputs a JSON file with a list of report cards for each student. The app had diligent error handling, for example if a student's course weight added to more or less than 100%, or if an unexpected data type was found, the JSON file would be created with an error statement.

In The Works:
Projects I am currently working on include a cryptocurrency price predictor that uses live bitcoin data and attempts to model the data using a gradient descent algorithm, and a personal portfolio website that will be fully responsive and complete with some simple arcade-style javascript games.

Work Experience

Jr. Software developer (intern) , Pi Cubed, Calgary AB — Summer 2020

I developed a GUI application for communicating with and reprogramming an Arduino raspberry pi circuit board. The purpose of the circuit board was to act as the computer behind an automatic sanitizing system, designed specifically for payment terminals in response to COVID-19.

Other Experience

Serving/Bartending — 2015-present
Worked in several restaurants honing my communication skills and work ethic.

Level 2 Ski Instructor — 2013-2015
Developed patience and leadership skills while teaching a group of kids to have fun on the snow.