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, Matplotlib, Tkinter, PyGame etc.)
- JavaScript, HTML, CSS
- C
- Experienced with coding environments such as Visual Studio, Anaconda and Jupiter Notebook.
- Basic 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.

Website & Fly Swatter:
I built my portfolio website from scratch without any boilerplates or frameworks to teach myself front end web development. It is complete with a fly swatting game (desktop only) containing menu screens, custom weapons, and live interactive visual gameplay. The website is https://averyprofessionalusername.github.io/

In The Works:
I am currently working on include a cryptocurrency price predictor that uses live bitcoin data. So far I have found some possible useful patterns in the data and am working on using these to predict future prices. Track my progress on GitHub at https://github.com/averyprofessionalusername/bitcoin-analysis.

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.