Skyler Alderson

Email	GitHub	LinkedIn	Phone Number	Location
skyler@thealdersons.org	Finkch	Skyler	604-807-1061	White Rock, BC

Professional Summary

Enthusiastic and detail-oriented recent graduate with a strong foundation in computer science and physics. Finds the best path to tackle a problem before starting. Adept at developing small-scale physics simulations, data analytics tools, and tools to solve math problems. Proven ability to solve complex problems, lead academic labs, and conduct research-based data analysis.

Education

University of British Columbia | GPA 3.90

- B.Sc. in Physics and Computer Science.
- Dean's List honoree; former executive of the Astronomy Club.

Experience

Undergraduate Academic Assistant (Research)

University of British Columbia | January 2024 to April 2024

- Developed Python scripts for data analytics on student submissions.
- Conducted thematic analysis of interview and survey data, led semi-structured interviews.

Computer Science Capstone Project

University of British Columbia | May 2023 to August 2023

- Developed JavaScript-based SQL and relational algebra editors, achieving the highest grade in the class.
- Built a Python backend for automated creation and grading of SQL/RelAlg questions.
- Implemented CI/CD and full regression testing through DroneCI.
- Integrated the project into the PrairieLearn platform.

Mock Degree Navigator App

University of British Columbia | September 2022 to December 2022

- Followed team-based software development practices to create a Java Android app in a third year Human-Computer Interaction course.
- Designed graphical user interfaces and flow diagrams for the app.
- Implemented backend components and data verification.

Volunteer Web Design, iGEM

University of British Columbia | October 2022

- Designed frontend using CSS and HTML for the iGEM wiki, contributing to its gold medal placement.

Skills

Languages: English (native), French (DELF B2) **Programming:** Python, Rust, Lua, Java, JavaScript, C, zsh, bash, R.
Data Analysis: NumPy, SciPy, Matplotlib, thematic analysis, semi-structured interviews.

Tools: Git, GitHub, Docker, MacOS, generative AI, Jupyter, Google Sheets, Excel.
Physics: Experimental design and execution, handling lab data, problem-solving, modeling.