Skyler Alderson

Email	GitHub	LinkedIn	Phone Number	Location
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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

- Bachelor of Science in Physics and Computer Science.
- Dean's List honoree on multiple occasions and former executive of UBC-O's Astronomy Club.

Experience

Undergraduate Academic Assistant (Research Position)

University of British Columbia | 4 months, 2024

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

Computer Science Capstone Project

University of British Columbia | 4 months, 2023

- Wrote JavaScript for functional SQL and relational algebra editors.
- Devloped Python backend to automatically create and grade SQL and RelAlg questions.
- CI/CD and full regression testing through DroneCI.
- Focused on full-stack development, achieving the highest grade in the class.

Teacher's Assistant

University of British Columbia | 18 months, 2022-2023

- Led two undergraduate experimental physics labratories.
- Assisted in creating class slides andGraded homework assignments.

Volunteer, iGEM

University of British Columbia | 2022

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

Skills

Programming: Python, Java, JavaScript, C, Lua, zsh and bash, minor familiarity with Rust and R.
Data Analysis: Python, numpy, thematic analysis, semi-structure interviews.
Tools: Git and GitHub, Docker, MacOS, generative AI, Jupyter, Google Sheets and Excel.
Physics: Experimental design and execution, handling lab data, problem-solving, and modeling.