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 - B.Sc. in Physics and Computer Science - Dean's List honoree, 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. - Conducted thematic analysis of interview and survey data, led semi-structured interviews.

Computer Science Capstone Project
University of British Columbia | 4 months, 2023 - Wrote JavaScript for functional SQL and relational algebra editors. - Developed Python backend to automatically create and grade SQL/RelAlg questions. - Implemented 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 labs. - Assisted in creating class slides and grading homework assignments.

Volunteer Web Design, iGEM
University of British Columbia | 2022 - Designed frontend using CSS and HTML for the iGEM wiki, contributing to its gold medal placement.

Skills

Programming: Python, Java, JavaScript, C, Lua, zsh, bash, minor familiarity with Rust and R
Data Analysis: Python, numpy, 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