Liam Rogers

Year 3, Joint Major in Computing Science and Linguistics

github.com/raincoat4 • linkedin.com/in/liam-rogers-734820232/ • **ltr1@sfu.ca**

EDUCATION

Simon Fraser University   Expected Graduation: May 2026
B.Sc - Joint Major in Computing Science and Linguistics

PROJECTS

Chess Game Group Project - *Java*   May 2023 - September 2023
https://github.com/raincoat4/chessgroupproject

- Developed a classic chess game application in javascript.
- Worked through obstacles of working in a 5 person group, which resulted in improved communication skills, as well as the ability to work as a part of a team.
- Presented our finished product to an audience, improving presentation ability, as well as clarity of explanations.

AI Machine Learning Model - *Python/Jupyter*   March 2023 - April 2023
https://github.com/raincoat4/neuralnetwork

- Engineered a machine learning model built around backward and forward propagation to accurately predict the presence of breast cancer.
- Used various optimization techniques, such as gradient descent with momentum, and RMSprop to further improve training results.
- Trained and tested with spreadsheet style data, achieving a test set accuracy of 99.98%.

Empirical Probability Calculator - *C++*   September 2022 - December 2022
https://github.com/raincoat4/sf-calc

- Ran simulations using calculated probabilities to investigate average time to obtain an item in a video game, assisting players across the server.

EXPERIENCE

Tutor, PD Plus - *Burnaby, BC*   September 2023 - Present

- Provided individualized instruction through virtual or in-person sessions to assist students in improving their grades in high school math courses.
- Developed communication/teaching skills, planning, and time management as a result of preparing and executing lesson plans for students.

AWARDS

- SFU Dean's Honor Roll - Spring 2023
- SFU Alumni Scholarship - Spring 2022

SKILLS

Languages: C++, C, Python, Java, Javascript, HTML, CSS, MATLAB
Technologies: Jupyter, Git, Excel, Node.js, React
Relevant Courses: Data Structures and Algorithms, Software Engineering, Operating Systems