

Audrey Safikhani

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Education

SIMON FRASER UNIVERSITY

Burnaby, BC

BSc Computer Science, Mathematics minor , GPA: 3.8/4.3

Jan 2024 - present

Relevant coursework: Data Structures and Algorithms, Visual Computing, Multimedia Systems, Software Engineering, Multivariable Calculus, Linear Algebra

Experience

SFU ROSIE LAB

Burnaby, BC

Undergraduate Research Assistant

Jan 2025 – present

- Assisted in creating a dataset to study facial attributes and expressions for machine learning applications.
- Designed a user study to validate the correspondence between faces representing emotions and intended emojis, contributing to dataset accuracy.
- Assisted with software development by implementing baseline using Python, PyTorch, and Pandas.

Technical Skills & Projects

Programming: HTML, CSS, C, C++, Python, PyTorch, Numpy, Pandas, Matplotlib, Tkinter, MATLAB

Space Particle Classification

- Developed a machine learning model to classify space particles as Gamma or Hadron using PyTorch and Pandas.

Replate: Community Food Redistribution Hub

- a platform bridging surplus food from donors to local charities and food banks.

Photography Weblog

- Designed and developed a personal weblog using HTML, CSS, and Figma to showcase photos in thematic galleries.

Leadership

SFU MATHEMATICS DEPARTMENT

Burnaby, BC

Calculus Tutor

Sep 2024 – Dec 2024

- Lead weekly seminars, guiding groups of students in collaborative problem-solving for calculus assignments, fostering engagement, and improving student understanding.

UPHOTO PHOTOGRAPHY CLUB

Burnaby, BC

Event Coordinator Executive

May 2024 – present

- Organized, hosted and documented about 10 photography events to engage club members, including workshops, photo walks, and exhibitions.