

Sophia Liao (she/her) Biomedical Engineering Student

Vancouver, British Columbia

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TECHNICAL SKILLS

Computer

- C, C++, Java, MATLAB, HTML, CSS, JavaScript
- Tracker Video Analysis

Laboratory

- Aseptic Technique
- Micro pipetting
- Spectrophotometry

Machine Learning

- Markerless Tracking
- Data Analysis
- Algorithm Design

EDUCATION

University of British Columbia
Bachelor of Applied Science - Biomedical Engineering

Expected Spring 2028

OTHER WORK EXPERIENCE

3J Holdings, Regina, Saskatchewan
Administrative Assistant

July 2024 – August 2024

- Managed financial records, including invoicing and expense tracking, using Excel to ensure accurate and efficient property management operations.
- Assisted with tenant communications, lease agreements and financial reporting, contributing to the overall administrative and operational efficiency of the company.

Dance City, Regina, Saskatchewan
Student Assistant

September 2019 – June 2023

- Taught over 50 children weekly in tap, jazz, ballet and lyrical dance, while preparing and rehearsing 10+ routines for regional competitions, achieving notable placements.
- Provided customer service by communicating feedback to dancers and families and engaged with potential students and families through front desk interactions.

TECHNICAL PROJECTS

DNA Sequence Processing, UBC

September 2024

- Developed a DNA sequence processing program to analyze and manipulate genetic data, demonstrating foundational skills within data handling, algorithm design and pattern recognition, all of which are applicable in various development projects.

Knee Injury Prevention Design Project, UBC

October 2024 – December 2024

- Applied machine vision techniques in a markerless tracking project to analyze jumping mechanics within the knee, employing image processing and data analysis to provide insights on injury prevention.

Personal Website

November 2024 – Present

- Designing and implementing a visually appealing website using HTML, CSS and JavaScript to showcase projects, skills, personal interests and achievements in an interactive and iterative format.



VOLUNTEER EXPERIENCE

Best Buddies Canada, Regina, Saskatchewan

September 2021 – June 2023

Member of Chapter Executive Board

- Organized and executed monthly inclusive events for 100+ students, fostering positive engagement between special needs and general student bodies. Managed budgets, coordinated logistics and led communications to ensure event success, working on interpersonal skills and organizational efficiency.

Dance City Regina, Saskatchewan

September 2021 – June 2023

Event Coordinator

- Coordinated and planned five charity events, raising over \$10,000 for the Dancer's Care Foundation. Planned and executed themed activities for 150+ children, showcasing project management and event planning skills, transferable to technical project coordination and stakeholder engagement.

