

Andy Li

github.com/andyjli0 | linkedin.com/in/andyjli0

Email : andyjli@student.ubc.ca

Mobile : +1 (587) 890-2649

EDUCATION

The University of British Columbia

Vancouver, BC

B.Sc., Combined Major Computer Science and Math; 4.00 GPA

Expected Graduation: May 2026

- Coursework: Software Construction, Models of Computation

Sir Winston Churchill High School

Calgary, AB

High School Diploma, 94% cumulative average

Sept. 2019 – June 2022

EXPERIENCE

Piano Teacher

Calgary, AB

MusicWorks Canada

June 2021 – June 2022

- Taught over 15 students from all musical backgrounds tailoring each lesson unique to student weaknesses
- Talked to both parents and student to discuss practice habits and goals, seeing improvements every week
- Prepared student for recitals while maintaining a fun learning environment to prevent burnout

Aircraft Cabin Cleaner

Calgary, AB

Delta Facilities Maintenance Inc.

Dec. 2021 – Jan. 2022

- Worked in teams of 6 to clean and disinfect high touch point areas during busy turnaround times
- Cooperated with co-workers under a tight schedule working through 5 small passenger cabins in a hour

Palliative Patient Experience Volunteer

Calgary, AB

Rockyview General Hospital

Nov. 2020 – Jun. 2022

- Volunteered over 250 hours with *Alberta Health Services* in improving end of life patient care
- Communicated with busy nurses and patients to help them carry out simple tasks that they needed assistance with
- Responsible for regular visiting, mealtime & mobility assistance, and improving the quality of life of patients

Classroom Assistant and Volunteer

Calgary, AB

The Chinese Academy

Sept. 2019 – Jun. 2020

- Supervised children and helped with class material in a kindergarten classroom of size 20
- lead students to class, washrooms, lunch tables, and parents after class to ensure safety

Kitchen Chef and Helper

Calgary, AB

Panago Pizza

Apr. 2019 – Jan. 2020

- Worked both in the back making dough & preparing ingredients, and the front by making pizza & taking orders
- Cleaned the workplace during non busy hours and proactively checked ingredient stock and availability
- Developed interpersonal skills by taking orders and answering delivery calls every shift

PROJECTS

3 Body Problem Visualization | *Personal Project*

August. 2023

- Used Python to simulate three objects of similar mass exerting force on each other
- Used NumPy and SciPy to numerically solve the ODEs to model the motion of objects
- Utilized **matplotlib** to continuously animate and visualize the motion

Java Flashcard Application | *Personal Project*

August. 2023

- Applied fundamental OOP and design principles to create a flashcard study application
- Used Java's **Swing** framework to implement a fully functional GUI
- Utilized JSON reading and writing to persist data after exiting the program

IMGUESSR.io | *Hackathon Project, nwHacks 2023*

Jan. 2023

- Worked in a team of 4 to create a prompt guessing game with *OpenAI's* DALL·E 2 AI generated images
- Used the **React.js** library with HTML, CSS, and JavaScript to implement the front end

TECHNICAL SKILLS

Languages: Java, Python, Javascript/HTML/CSS, Racket

Frameworks and Libraries: JUnit, Pytest, NumPy, Matplotlib, React.js, Swing

Technologies: Git, Bash, L^AT_EX, IntelliJ IDEA