Lana Nakai
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EDUCATION

High School Diploma — Cupertino, CA, USA | June 2025

3.96 Unweighted GPA
6 AP courses, 2 Honors

Bachelor of Science — University of British Columbia

Intended Specialization: Computer Science
First Year Standing | Expected Graduation May 2029

Current Grade Average: 93.4% (A+)

TECHNICAL EXPERIENCE

Object Oriented Programming — Java

Libraries - 2024

- Built a modular shape library using inheritance and polymorphism
- Created a physics engine simulating real-world physics, including gravity, collisions, and momentum between various kinds of dynamic objects
    - Included user interaction to prompt unique behavior from objects

Game Development - 2024

- Collaborated in a team to design a fully functional, timed, multi-stage ice cream building game inspired by popular game *Cooking Fever!*, where each food item exhibits unique properties or poses a unique challenge
    - Extensive experience in Version Control
    - Used all key OOP concepts

Website Development — HTML, CSS, Javascript, React, Version Control

NwPlus HackCamp 2025 Hackathon - Nov 2025

- Participated in Western Canada's Largest Beginner Hackathon

- Learned the basics of HTML, CSS, Javascript, React, and APIs
- Collaborated in a team of 4 to build a functional mockup of our project, *LearnLoop* in a 18 hour timespan:
    - Learn more about the project by clicking on the link
- Learned new skills and collaboratively implemented them within a day

Personal Website — HTML, CSS

- Inspired by the Hackathon, designed and built a personal website implementing multiple pages
- Focused on semantic design
- Used best practice for Git & GitHub
- Currently working on refactoring and improving using React, and would like to implement a backend to allow real user input into the contact page

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Relevant Course Work

- AP: Computer Science A, Physics C, Calculus AB, Statistics
- **DSCI 100** (Intro to Data Science)
- **MATH 101** (Integral Calculus)
- **CPSC 110** (Computation, Programs, and Programming)
    - Fundamental program and computation structures
- **CPSC 121** (Models of Computation)
    - Boolean algebra, combinations logic circuits; proofs; functions and sequential circuits; sets and relations; finite state machines; sequential instruction execution
- **CPSC 210** (Software Construction)
    - Include software design, computational models, data structures, debugging, testing
    - Uses Java

PROFESSIONAL EXPERIENCE

Teaching Assistant: UBC CPSC 110 – Vancouver, BC
Jan 2026 - Present

- CPSC 110 is UBC's main introductory Computer Science course, focusing on software development through systematic program design
    - Taught using simplified dialects of Racket

- Work collaboratively in a team of ~40 TAs, 2 Professors, and the Course-Coordinator towards a common goal
- Lead labs of ~30 students in teams of 3
- Teach to students who may have never coded previously
    - Clearly explain and communicate how a program works, its purpose, functionality, etc.
- Internalize and enforce good practices in a software development context
- Grade assignments and invigilate exams
- Quickly tackle unexpected issues, where students' grades may be on the line

Waitress – USA
Jun - Aug 2025, Dec 2025

- Work and maintain efficient communication within a large, cross-functional team
- Maintain a professional attitude at all times

Server/Cashier/Bobarista – USA
Jun 2024 - Apr 2025

- Create a positive environment
- Work in a fast-paced setting

VOLUNTEERING

Leadership Team — Japanese National Honor Society
May 2024 - May 2025

- Collaborate to teach interested students about Japanese culture
    - Hold monthly club meetings, present to ~30+ students regularly
    - Plan collectively for events, meeting presentations, etc.
- Secretary role: focus on communication
    - Within 9 person officer team and 50+ club members

Tutor — Japanese National Honor Society
Sep 2023 - May 2025

- Tutored students in Japanese within school
- Adjust to teaching varying levels, from intro to AP-level

Tutor — Community service
Dec 2023 - Nov 2024

- Tutor immigrant student in English
- Lead hour-long one on one sessions based on student's personal needs
- Clarify homework within varying school subjects
- Prepare for English advancement test

SKILLS

- Version Control (Git, GitHub)
- Java
- Functional Programming, Racket
- Semantic HTML5
- CSS3, Tailwind CSS
- Exposure to Javascript, React
- Object Oriented Programming
- Systematic program design
- Strong communication
    - Professional, efficient, clear, and punctual
    - Bilingual: Japanese and English
- Team-oriented

LINKS

GitHub | Linkedin | Devpost