

Lauren Yip

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EDUCATION

Simon Fraser University

Burnaby, BC

Bachelor of Science in Computer Science

Expected graduation: Spring 2026

- Relevant courses: Intro to Business Fundamentals, Data Structures and Programming, Intro to Software Engineering, Intro to Programming I & II, Discrete Math I & II & III, Statistics, UX/UI design, Computational Data Science, Affective Computing, Visual Computing
- SFU Clubs and Affiliations: **WICS Technical Events Coordinator** and Mentor 2024-25, Blueprint AI Engineer 2024, Club Volleyball 2021-22, Shockwave Dragonboat 2025, Atelier.place (Socratica)

WORK EXPERIENCE

Mission Science Apprentice - Terrestrial Snow Mass Mission (TSMM)

May 2025 – Aug 2025

Canadian Space Agency

Longueuil, QC

- Developed a stakeholder database for Canadian Sun-Earth systems contacts, conducted analysis and presentation of TSMM papers to inform **mission roadmap** and **collaboration** with Environment & Climate Change Canada.
- Managed **simulation platform operations** and processed TIF images to create Canada-wide mosaic imagery, **establishing the TSMM initiative** and target for CSA, ESA, and NASA researchers

Product Designer

May 2025 – Aug 2025

SFU - Special Research Projects (Cradle)

Burnaby, BC

- Authored comprehensive PRDs defining workflow tasks and conducted user interviews with healthcare practitioners to optimize design flows, translating feedback into strategic UI/UX decisions and usability heuristics
- Created user stories with corresponding UI designs and prototypes, working directly with developers on frontend implementation and rules engine logic to ensure design feasibility and technical alignment

IT Cybersecurity Infrastructure and Platforms Intern

Sept 2024 – Dec 2024

BC Hydro

Vancouver, BC

- Ideated, designed, and developed an **AI Assistant** for cybersecurity infrastructure, utilizing SQL and Python for platform queries and web scraping; ensuring accurate, real-time data and **reducing meeting time by 30%**.
- Identified feature requirements via interviews, integrating Splunk and Cisco Umbrella to **enhance robust security operations**, leading to a **40% improvement in threat detection** and better access to critical insights.

Undergraduate Research Assistant

Jun 2023 – Jun 2024

ROSIE Lab, SFU

Burnaby, BC

- **Co-authored** publication on non-verbal Human-Robot interactions by identifying and analyzing 1099 interactions between participants and virtual agents, **produced** an informational video and website using **React**.

PROJECTS

PRD+ | UBC PMC Product Sprint - 1st Place / 20 teams

Mar 2025

- Led product lifecycle for **PRD+**, a Chrome extension that has an in-built centralized PRD display, AI-assistant, and quick checklist function to ensure best practices in the product requirements documentation process for Telus, reducing PRD-related meeting time by 50%, knowledge search by 75%, and writing time by 25%.
- Conducted comprehensive user research to identify pain points and the problem space, wrote a detailed PRD, created an interactive prototype with Figma, and pitched to a panel of 6 Telus PM judges.

Brig.AI | Accelerator Award Winner

AI4Good Lab 2024

- A platform where women can become empowered to self-advocate for proper reproductive healthcare. Used machine learning models **Logistic Regression**, **Adaboost**, and **Kmeans clustering** and Python, Flask, React.js.
- Presented to judges, leading ML researchers, and 200+ attendees. Promoted our project and cause by writing a blog post for AI4GOOD Lab's website.

Emergency Response BC | JS, HTML, CSS, Python, Flask

nwHacks 2024

- A website that allows you to input your location and view the nearest hospitals and their ER wait times. Worked with **web scraping**, **RESTful APIs**, and the Haversine Formula.

SKILLS

Programming Languages, Frameworks, and Libraries: Python, C/C++, R, Java, MatLab, SQL, TypeScript, React, Flask, Splunk SPL, Vue.js, Node.js, JUnit, Pandas, NumPy, Matplotlib, Spark, TensorFlow, ScikitLearn.

Technologies: Git, RESTful APIs, JIRA, Docker.

Design Tools: Figma, Adobe Photoshop, Adobe Illustrator, Adobe Premiere, Blender.

Personal Interests: Oil painting, reading, writing, piano, guitar, beach volleyball, swimming, hiking, snowboarding.