

Chloe Lam

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EDUCATION

University of Toronto

Honours Bachelor of Science in Computer Science, Minor in Statistics and Mathematics

Toronto, ON

Expected 05/2026

Related Coursework: Intro to Machine Learning; Intro to Artificial Intelligence; Operating Systems; Algorithm Design, Analysis & Complexity; Data Structures and Analysis; Software Design; Programming on the Web; Probability with Computer Applications; Calculus with Proofs; Linear Algebra; Intro to Theory Computation; Methods of Data Analysis;

EXPERIENCE

Software Developer

Natural Resources Canada (NRCan)

05/2024 – Present

Vancouver, BC

- Led a UI design session with 8+ scientists to define requirements and implemented a user-centered observation log tab using Figma and Dash/Python, boosting dashboard usability by 25%.
- Enhanced dashboard functionality with Government of Canada branding, a streamlined legend, glacier footprint integration, and an improved summary table for greater data accuracy and usability.
- Optimized image resolutions, coordinate systems, and ML models to refine displacement analysis, achieving 95% accuracy in subsidence/uplift thresholds and improving volcanic deformation detection sensitivity by 40%.

IT Lab Assistant

University of British Columbia (UBC)

05/2024 – Present

Vancouver, BC

- Developed a customizable split-belt treadmill program using dFlow and Lua, supporting tied, split, tripping (deceleration), and slipping (acceleration) modes.
- Facilitated research on gait analysis and rehabilitation by improving adaptability for various studies, including applications in neurological and motor function research.

Fullstack Developer

Provincial Health Services Authority (BC Renal)

05/2023 – 08/2023

Vancouver, BC

- Developed a new mobile **Flutter** application that improved patient treatment by 30%, employing **Firestore** and **OAuth** for efficient data storage and retrieval, ensuring enhanced user security, while adhering to **SOLID Design Principles** and **Clean Architecture** for future scalability.
- Produced detailed **Confluence** documentation, presented to a large development team, effectively conveying intricate technical concepts, reducing onboarding time by 20%.

Web Developer

University College Literary and Athletic Society (University of Toronto)

07/2022 – 06/2023

Toronto, ON

- Maintained and updated the organization's event databases on their **Jekyll**-based website (**HTML**, **SCSS**, **YAML**), while enhancing accessibility and visual appeal, resulting in a 20% increase in user engagement.

Front End Web Developer

CodeCa

06/2020 – 09/2020

Vancouver, BC

- Built 5+ webpages using **HTML**, **CSS**, and **ReactJS**, following **Figma** designs, effectively showcasing company activities and increasing user engagement.

SKILLS

Languages: HTML, CSS, JavaScript, Java, Python, C, R, Dart, SQL, Assembly

Frameworks and Libraries: ReactJS, Express.js, pandas, NumPy, Matplotlib, PyTorch, scikit-learn, Android SDK, Material UI

Tools: Firebase, Visual Studio, PyCharm, IntelliJ, Android Studio, Jupyter, Jira, Confluence, Trello, Git, Gitlab, Figma, Adobe XD, Docker

Technologies: Flutter, OAuth, SSH, Linux, MongoDB, Node.js, AWS