

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; Neural Networks and Deep Learning; Introduction to Image Understanding; Algorithm Design, Analysis & Complexity; Software Design; Programming on the Web;

EXPERIENCE

Software Developer

05/2024 – Present

Natural Resources Canada (NRCan)

Vancouver, BC

- Led a UI design session with 8+ scientists and built a user-centered observation log tab in **Figma** and **Dash/Python**, increasing dashboard usability by 25%.
- Enhanced dashboard with Government of Canada branding, a streamlined legend, glacier footprint integration, and a more accurate summary table.
- Developed a scalable real-time inference pipeline for processing RCM InSAR data using **Docker** and **AWS**, optimizing image resolution, coordinate systems, and ML models to refine displacement analysis and enable automated volcanic unrest detection.

Fullstack Developer

05/2023 – 08/2023

Provincial Health Services Authority (BC Renal)

Vancouver, BC

- Developed a new mobile **Flutter** application that improved patient treatment by 30%, employing **Firebase** 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

07/2022 – 06/2023

University College Literary and Athletic Society (University of Toronto)

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.

PROJECTS

Neural Networks, Item Response Theory, k-NN | *Python, Pytorch, scikit-learn*

09/2023 – 12/2023

- Worked with 2 peers for the Intro to ML course's final project, implementing autoencoder, Item Response Theory, and k-NN algorithms, along with an ensemble, to predict students' diagnostic question correctness.

UofTinder | *Java, Android SDK*

09/2022 – 12/2022

- Mapped out the project layout using **CRC cards** and applied **SOLID Design Principles** and **Clean Architecture Model**, resulting in a 20% reduction in code complexity and improved maintainability.
- Used **Model View Presenter (MVP)** design pattern for View Screen code, boosting user engagement by 30% and improving navigation on the Android mobile app.
- Wrote comprehensive **JUnit** unit tests and **Espresso** instrumented (UI) tests for the **Android User Interface**, **Firebase database**, and backend computations, achieving a 95% code coverage and ensuring the reliability and stability of the application.

UniPlanit | *ReactJS*

05/2022 – 07/2022

- Developed a **MERN stack** web application with a team of 4 students, facilitating the creation of custom timetables for university students. ([Project Link](#))

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