

# Chloe Lam

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## EDUCATION

### University of Toronto

Toronto, ON

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

*Expected 06/2026*

**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; Computer Networking Systems;

## EXPERIENCE

### Software Developer

05/2024 – Present

*Natural Resources Canada (NRCan)*

*Vancouver, BC*

- Led UI design with 8+ scientists, building a **Figma** and **Dash (Python)** observation log and enhancing a national dashboard with Government of Canada branding and simplified visuals, improving usability by 25%.
- Built a scalable, near real-time ML pipeline for RCM InSAR data using **Docker** and **AWS Batch** and authored/presented a 25-page research report on CNN-based volcanic unrest detection, demonstrating feasibility for large-scale, AI-driven volcanic hazard monitoring.

### Software Developer

08/2025 – 09/2025

*Omini*

*Paris, France*

- Refactored a 3,000+ line dashboard and automated data pipelines while analyzing 10k+ biosensor data points with **Python/Excel**, improving maintainability, reducing processing time by 40%, and accelerating research insights.

### 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 **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

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

### Sentinel | *Next.js, FastAPI, MongoDB*

01/2026 – Present

- Developing a clinical symptom summary web app for healthcare providers and patients, integrating **LLM API calls** to **Gemini** and **Meta Llama** for intelligent summarization; deployed on **Vercel** and **Google Cloud Run**.

### Fairloft | *ReactJS*

07/2025 – Present

- Leading frontend development, translating **Figma** designs into a responsive **React.js** website, optimizing usability and user flow for a centralized golf products and services platform.

### Lockin | *Flutter*

02/2024 – 08/2024

- Developed the frontend of a mobile app in **Flutter**, translating 10+ **Figma** designs into functional pages and collaborating remotely with students from 3 universities to help users manage technology use and improve life, career, and relationships.

### UofTinder | *Java, Android SDK*

09/2022 – 12/2022

- Applied **Clean Architecture**, **SOLID**, and **MVP** to an Android app and built JUnit/Espresso test suites, reducing code complexity by 20%, increasing engagement by 30%, and achieving 95% test coverage.

## SKILLS

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

**Frameworks and Libraries:** React.js, Next.js, Express.js, FastAPI, 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, GitHub Actions

**Technologies:** Flutter, OAuth, SSH, Linux, MongoDB, Node.js, AWS, Vercel, Google Cloud Run