

Chloe Lam

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EDUCATION

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| University of Toronto <i>Honours Bachelor of Science in Computer Science, Minor in Statistics and Mathematics</i> | Toronto, ON 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

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| Software Developer <i>Natural Resources Canada (NRCan)</i> | 05/2024 – Present Vancouver, BC |
| <ul style="list-style-type: none">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 <i>Omini</i> | 08/2025 – 09/2025 Paris, France |
| <ul style="list-style-type: none">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 <i>Provincial Health Services Authority (BC Renal)</i> | 05/2023 – 08/2023 Vancouver, BC |
| <ul style="list-style-type: none">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 <i>University College Literary and Athletic Society (University of Toronto)</i> | 07/2022 – 06/2023 Toronto, ON |
| <ul style="list-style-type: none">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

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| Sentinel <i>Next.js, FastAPI, MongoDB</i> | 01/2026 – Present |
| <ul style="list-style-type: none">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 <i>ReactJS</i> | 07/2025 – Present |
| <ul style="list-style-type: none">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 <i>Flutter</i> | 02/2024 – 08/2024 |
| <ul style="list-style-type: none">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 <i>Java, Android SDK</i> | 09/2022 – 12/2022 |
| <ul style="list-style-type: none">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

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| 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 |