

# 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 05/2025*

**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

### 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%.

### Software Developer

09/2022 – 12/2022

*UofTinder (University of Toronto)*

*Toronto, ON*

- 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**, **Firestore database**, and backend computations, achieving a 95% code coverage and ensuring the reliability and stability of the application.

### 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.

### Front End Web Developer

06/2020 – 09/2020

*CodeCa*

*Vancouver, BC*

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

### 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](#))

### Petudier | *JavaScript, HTML, CSS*

06/2022

- Created a productivity-enhancing Google Extension with 3 students within 24 hours, enabling users to block distractions during study sessions, fostering self-improvement and effective time management. ([Project Link](#))

### r/HowCovidImpactsMentalHealth | *Python, Pandas, NumPy, Matplotlib, Scikit-learn*

09/2021 – 12/2021

- Collaborated with 3 students to conduct an analysis of the impact of COVID-19 on mental health through social media data, utilizing data visualization techniques to graphically represent the findings. ([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, Logisim

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