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 **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%.

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.
- Implemented View screen code interactions using the **Model View Presenter (MVP)** design pattern, resulting in a 30% increase in user engagement and smoother navigation.
- 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.

Web Developer   07/2022 – 06/2023
University College Literary and Athletic Society (University of Toronto)   *Toronto, ON*
- Maintained and updated organization's event and announcement databases on their **Jekyll**-based website (use of **HTML**, **SCSS**, **YAML** files), ensuring 100% accuracy and timely updates for members and visitors.
- Explored opportunities to enhance website accessibility and visual appeal through redesign initiatives, 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 (University of Toronto) | *Python*   09/2023 – 12/2023
- With 2 peers for the ML final project, implemented autoencoder, Item Response Theory, and k-NN algorithms, along with an ensemble, to predict students' diagnostic question correctnes.

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.

Petudier | *JavaScript, HTML, CSS*   06/2022
- Created a productivity-enhancing Google Extension with 2 other students within 24 hours, enabling users to block distracting websites during study sessions, fostering self-improvement and effective time management.

r/HowCovidImpactsMentalHealth | *Python, Pandas, NumPy, Matplotlib, Scikit-learn*   09/2021 – 12/2021
- Collaborated with a team of 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.

TECHNICAL SKILLS

Languages: ReactJS, HTML, CSS, JavaScript, Java, Python, C, R, Dart

Frameworks and Libraries: Flutter, OAuth, SSH, SQL, pandas, NumPy, Matplotlib

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