

# Louise Chan

Mississauga, ON | [www.louisechan.ca](http://www.louisechan.ca) | [linkedin.com/in/louise-chan-0525](https://www.linkedin.com/in/louise-chan-0525)

Objective: An emerging mobile application developer with knowledge in native iOS, Android and front-end web application development and a good understanding of object-oriented programming concepts. Currently setting a goal of developing expertise in mobile application development by establishing strong knowledge and familiarity of frameworks and libraries used in Android, iOS and web development and be capable of developing custom frameworks and libraries that will be used in mobile app development.

## HIGHLIGHT OF QUALIFICATIONS

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- Knowledge in native iOS application development including familiarity with using the UIKit, MapKit, Core Location, Core Data and Core Motion frameworks. Capable of creating Storyboard-based layouts using Xcode.
- Knowledge in native Android application development and Android SDK including the building of UI layouts using Android Studio IDE as well as use of frameworks such as Sensor Manager, Google Map and Location services and Firebase cloud development platform.
- Strong understanding of object-oriented programming principles and concepts and capable of applying this knowledge using Java and Swift programming languages.
- Solid knowledge in HTML5, CSS3 and JavaScript programming languages and capable of applying these skills in front-end web development by designing responsive web pages and applications.
- Knowledge and familiarity of hybrid application development using the React Native framework for Web, iOS and Android platforms.
- Knowledge in MySQL relational database modelling, design and development.
- Excellent problem solving and software debugging skills.
- Familiarity with conducting and participating in code peer reviews as part of the software development process.
- Fast learner, able to adapt to changes in the software development process set by the company and a strong desire to contribute to the improvement of the workflow and process of the software development team.

## TECHNICAL SKILLS

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<b>Programming Languages:</b>	Swift, Java, C, HTML5, CSS3, JavaScript, JSX
<b>App development platforms:</b>	Web, Android, iOS
<b>Version control systems:</b>	git and Subversion
<b>SDK/Database/Frameworks:</b>	Firebase, MySQL, RESTful APIs, Google Maps, React
<b>Software development tools:</b>	Android Studio, Xcode, Eclipse IDE, Visual Studio Code, Gerrit, GitHub

## EDUCATION

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### Mobile Application Development and Strategy Program

Jan 2020 - present

George Brown College – Casa Loma | Toronto, ON

*KEY Courses/concepts:*

- |                                   |                               |
|-----------------------------------|-------------------------------|
| • iOS application development     | • Relational Databases        |
| • Android application development | • Web Development             |
| • Swift and Java Programming      | • Mobile Application Strategy |

### Bachelor of Science in Computer Engineering

University of San Carlos | Cebu, Philippines

*KEY Courses/concepts:*

- |                                |                                 |
|--------------------------------|---------------------------------|
| • Digital Logic Circuit Design | • Microcontroller system design |
|--------------------------------|---------------------------------|

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- Data structures and Algorithm
- Computer system architecture and Interfacing
- C and Assembly Language Programming
- Basic electronics circuit design

## ACADEMIC PROJECTS

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### Live Fit Food Meal Kit Ordering App (iOS/Android)

George Brown College | Toronto, ON

- The application is an unofficial mobile ordering app developed for the Live Fit Food website ([livefitfood.ca](http://livefitfood.ca)) and demonstrates my knowledge in native iOS and Android app development by utilizing different iOS and Android SDKs, libraries and frameworks as well as showcase my skills in persistent data storage integration in mobile applications by implementing data storage using the Firebase cloud storage platform and Apple's Core Data framework.

### Tokyo 2020 Olympics Tourist Information (Android)

George Brown College | Toronto, ON

- The application was developed as an information tool for tourists visiting Tokyo for the 2020 Summer Olympics which unfortunately was postponed due to pandemic. This app implements a single user-interface layout approach by organizing the different screens through a navigation menu and showing them within the frame layout as fragments. The app also uses intents in order to make calls or send emails as well as set appointments through the Google calendar app. A toolbar is also made available within this app to allow users to have quick access to certain app functions such as the Contacts menu and the logout button.

### Alien Addition Math Game (HTML5/CSS3/JavaScript)

George Brown College | Toronto, ON

- This responsive web application is an educational "Space Invader"-like game that will allow the user learn Math in a fun way. It is a framework-free web application design which is implemented using vanilla HTML5, CSS3 and JavaScript. A combination of CSS grid layouts and timer functions are used in order to manipulate movements of the graphics that are used within the game. JavaScript code is used to handle timer events asynchronously as well as handle asynchronous user inputs that will allow the user to perform game control functions.

### Live Fit Food Meal Kit Ordering App (React Native)

George Brown College | Toronto, ON

- Similar to the native iOS and Android implementations of this app is another version developed using the React Native framework. This hybrid application will run on multiple platforms and was tested to work on iOS and Android mobile devices as well as web browsers. This hybrid app uses stack navigation to switch between the different screens and a flatlist to view the list of meal kits and meals. Persistent data storage and authentication are all performed using the Firebase cloud development platform.

## PROFESSIONAL EXPERIENCE

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### Embedded Software Developer

April 2014 - December 2018

Timex Group Canada, Inc. | Markham, ON

- Designed and developed the framework used in developing embedded software for sensor-based, digital and analog watches. By creating this framework, I was able to help reduce the time it would take to develop firmware for a watch product by at least 50% by allowing developers to focus more

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on application software development instead of having to refactor the watch system firmware every time a new firmware development project is started.

- Wrote the firmware for advanced digital sensor-based watches by implementing the features and functions that are available in the UI/UX software specification documents.
- Conducted code and design reviews with software team members. I was able to contribute to this task by helping to ensure that each member of the team will be able to write code according to the coding standards set by the company and also anticipate any design flaws and potential bugs that may arise during the early phase of the software design.
- Created technical specifications that will be used as reference for products that are being designed. This include tasks involving the writing of software design documents for new sensors used in a watch product and UI/UX programming specifications used in firmware developments.

## COLLEGE RECOGNITION

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### Dean's Honour List

Winter 2020 Term

#### ***George Brown College – Casa Loma Campus***

Mobile Application Development and Strategy Program  
Centre for Arts, Design and Information Technology

### Dean's Honour List

Spring/Summer 2020 Term

#### ***George Brown College – Casa Loma Campus***

Mobile Application Development and Strategy Program  
Centre for Arts, Design and Information Technology