

# Alex Quach

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## TECHNICAL SKILLS

- **Programming Languages:** Python, Java, SQL, C, Swift, JavaScript, HTML, CSS, Visual Basic, C++, C#, LaTeX
- **Databases:** SQLite, MySQL, PostgreSQL
- **Cloud Platforms:** Microsoft Azure A.I Services (Custom Vision AI, Speech AI), Google Firebase (Firestore)
- **Frameworks:** Android, Node.js
- **Technologies:** XCode, Android Studio, Git, Visual Studio, IntelliJ IDEA, PyCharm, Windows, Mac OS, Linux

## EDUCATION

**University of Toronto – St. George Campus** September 2017 - April 2021 (Expected)  
*Honours Bachelor of Science, Computer Science Specialist* CGPA: 3.46

## HACKATHONS

- Skinmergency – BEST HEALTH CARE HACK** ([devpost.com/software/skinmergency](https://devpost.com/software/skinmergency)) DeltaHacks V (2019)
- Designed and completed a medical assistance application that helps people make a quick and easy diagnosis on their own skin conditions using only a phone camera.
  - Handles user taken photos and relays information on the severity, symptoms and next steps of the condition.
  - Developed using **Java**, **Android Studio**, **SQL**, and the **Microsoft Azure Custom Vision AI**.
  - Used **TensorFlow** to implement the **Custom Vision AI** that identifies 10 skin conditions with 80-90% accuracy.
  - Integrated the **TensorFlow** model, the **SQLite database** for disease/user information, and the user interface.
  - Awarded **best healthcare hack out of 21 teams**.
- SpeechChess** ([devpost.com/software/speechchess](https://devpost.com/software/speechchess)) Hack the North (2019)
- Created to learn more about the Microsoft Azure platform and to find an easier way to play chess.
  - Used **Python** to parse natural language text from the **Azure Speech API** to proper chess moves.
  - Integrated the **back-end** with the **Python** chess game which was displayed on an **HTML** webpage.
  - Familiarized myself with another Azure API and improved the experience of playing chess for beginners.
- Communipay** ([devpost.com/software/communipay](https://devpost.com/software/communipay)) UofTHacks VI (2019)
- Designed and completed a prototype of an online transaction community for the purpose of easing the process of separating the bill amongst friends & colleagues.
  - Developed using **Java**, **Android Studio**, the **Interac money-request API**, and **Google Cloud Firestore**
  - Learned how to store local information on a Cloud database and learned how to transfer transaction data between an Android app and an API using **JSON**.

## PROJECTS & EXPERIENCE

- MyExpenses** ([github.com/alexzquach/MyExpenses](https://github.com/alexzquach/MyExpenses)) December 2018
- Used **Swift** to develop an **iOS app** that allows users to create a budget and track their account transactions.
  - Stores user and application information on an **SQLite database** with user search, create, update and delete.
  - Completed the user interface implementations of date selection wheels, data display tables and search.
- GameCentre** ([github.com/alexzquach/GameCentre](https://github.com/alexzquach/GameCentre)) October 2018 - November 2018
- Used **Java** and **Android Studio** to create an Android app that acts as a game hub for three different games.
  - Developed using the **Model-View-Controller** design pattern. Stores information on a local database.
  - Achieved **100% unit-test coverage** on all logic related code (excludes views and other UI elements).
- Webmaster – University of Toronto Japan Association** September 2017 - Present
- Designed, created and currently managing the website for my club. Implemented UI with **HTML** and **CSS**.
  - Helps patrons of the club view weekly/monthly events and other important information about the club.
  - Increased club traffic by 10% as users obtained additional sources of event & club information.