Alex Quach

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TECHNICAL SKILLS

- **Programming Languages**: Python, Java, SQL, C, Swift, JavaScript, HTML/CSS, Visual Basic, C++, C#
- **Databases**: SQLite, MySQL, PostgreSQL, MongoDB
- **Cloud Platforms**: Microsoft Azure A.I Services (Custom Vision AI, Speech AI), Google Firebase (Firestore)
- **Frameworks & Technologies:** Node.js, React, iOS, Android, Git, Windows, macOS, Linux

EDUCATION

University of Toronto – Toronto, ON, Canada   September 2017 - April 2021 (Expected)
Honours Bachelor of Science, Computer Science Specialist   *CGPA: 3.46*
Relevant courses: Databases, Data Structures and Analysis, Algorithm Design and Analysis, Software Design

HACKATHONS

Skinmergency – BEST HEALTH CARE HACK *(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.
- Used **TensorFlow** to implement my trained **Microsoft Custom Vision AI** model that identified 10 skin conditions with 80-90% accuracy.
- Integrated and developed the **TensorFlow** model, the **SQLite database** for disease/user information, and the **front-end** which used **Java** and **Android**.
- Awarded **best healthcare hack out of 21 teams**.

SpeechChess *(devpost.com/software/speechess)*   Hack the North (2019)
- Designed and completed a **Python** chess game that allows people to play chess with just voice commands.
- Used **Python** to parse natural language text from the **Azure Speech API** into proper chess moves which was displayed on an **HTML** website.
- Familiarized myself with another Azure API and improved the experience of playing chess for beginners.

Communipay *(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**, 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)*   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)*   October 2018 - November 2018
- An **Android** app developed in **Java** and maintained over a period of 4 months with 3 other team members.
- The app acted as a game hub for 3 different games and stored user 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.