Alex Quach

alex.quach@mail.utoronto.ca | +1 (647) 774-9372 | alexquach.tech
linkedin.com/in/alexquach1 | github.com/alexzquach | devpost.com/alexzquach

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   *Toronto, ON, Canada*

HACKATHONS

Skinmergency – BEST HEALTH CARE HACK *(devpost.com/software/skinmergency)*   DeltaHacks V (2019)
- Designed and implemented a medical assistance application that helps people make a quick and easy diagnosis on their own skin conditions using a phone camera
- Developed using Android Studio, and the Microsoft Azure Custom Vision AI with a TensorFlow implementation of the AI model that allowed us to identify skin conditions with 80-90% accuracy
- Worked as a solution architect and a full stack developer. Integrated the TensorFlow implementation of the AI model and the SQL database for the application information
- Awarded best healthcare hack out of 21 teams

SpeechChess *(devpost.com/software/speechess)*   Hack the North (2019)
- Created to learn more about the Microsoft Azure platform and to find an easier way to play chess
- Implemented the Azure Speech API that converts natural language speech to text
- Worked full stack integrating the speech API with the python move parsing algorithm and python chess game
- Familiarized with another Azure API and improved the experience of playing chess on technology

Communipay *(devpost.com/software/communipay)*   UofTHacks VI (2019)
- Designed and completed a prototype of an online transaction community with event hosting and quick money transactions, easing the process of separating the bill amongst friends/colleagues
- Developed using Android Studio, the money-request API provided by Interac, and Google Cloud Firestore
- Worked as a full stack developer. Integrated Interac API into application whilst ensuring smooth UI interaction

PROJECTS & EXPERIENCE

MyExpenses   December 2018
- An app developed using Swift that allows the user to create a budget, and track their account transactions
- Developed using Swift that makes use of an SQLite database to store user and application information
- Implemented date selection wheels, data tables, user search, create, update and delete

GameCentre *(github.com/alexzquach/GameCentre)*   October 2018 - November 2018
- An app developed using android studio and java that functions as a game hub for three different games
- Applied and demonstrated the software design principles of S.O.L.I.D. Also applied various design patterns
- Successful in engaging users and improving game implementation speed by 5 times

Webmaster – University of Toronto Japan Association   September 2017 - Present
- Designed, created and managing the website for my club. Implemented 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