

Hexiao Zhang M.Eng.

Mobile Application/iOS Developer

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CORE QUALIFICATIONS

- More than one-year experience in full iOS mobile development (Swift) lifecycle
- Practical experience of Swift design patterns - MVC, Singleton, Delegate, Observer, etc.
- Understanding of interactive application development paradigms - asynchronous programming, multi-threading, Image processing, network & socket programming, memory management, etc.
- Solid experience with integrating third-party API on server-side using Node.js
- Proficiency with version control tools such as Git

PROFESSIONAL EXPERIENCE

iOS Application Developer

Oct 2019 – July 2020

Ramble, Montreal (Preview: <https://github.com/ZhangHexiao/RambleApp>)

As principle iOS/Swift developer, having complete responsibility of full development and distribution life cycle of two enterprise iOS apps, *Ramble* and *Ramble Creator*, including designed SQL database, configured back-end Parse Server

- Translated concept design into user interface compatible with various generations of iPhone, designed application screen flows, and UI transitions
- Added specific features to applications as per the team's requirements, such as
 - Payment: users transactions and creators claim funds after sharing events; QR Code for tickets verification; SMS code for identity verification
 - Real-time chatting: using Parse Live-Query, MessageKit
 - Notifications: sending receiving notification and starting App with local or remote notifications
 - Rating and review for events users have attended
- Configured various third-party API and cocoapods to customize the service for users, such as *MapBox* and *Google Place Service* for discovering events based on location, *FacebookSDK* for logging, and *Stripe API* for payment, etc.
- Used GCD (Grand Central Dispatch), *PromiseKit* and asynchronous programming to load events, deal with order and payment, as well as other background tasks on client-side and server-side.

Mobile Application Developer/ Web Developer

May 2019 – Oct 2019

Piriko, Montreal (<https://piriko.app>)

Joined a start-up company to develop its product for self-educational purposes.

- Designed and developed views/templates for various functions in the mobile app, using Ionic Angular
- Developed the company's website using HTML5, CSS3, JavaScript, jQuery, and Bootstrap

ACADEMIC EXPERIENCE

Research Program Leader, supervised by Professor *Kaoshan Dai*

Oct 2013 – Jun 2017

3D Laser Scanning Application in Structural Damage Assessment, Tongji University, China

- Proposed a framework including algorithms to facilitate post-earthquake structural damage assessment
- Developed an Earthquake Damage Assessment Software based on proposed algorithms
- Publication Link: <https://onlinelibrary.wiley.com/doi/abs/10.1002/stc.2210>

EDUCATION

Web Programming Diploma, Concordia University

Sep 2017 – Jun 2019

Master Degree in Civil Engineering, McGill University

Sep 2017 – Apr 2019

Bachelor Degree in Civil Engineering, Tongji University

Shanghai, China • Sep 2012 – Jun 2017