# Hanfang Zhao

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Master Graduate | Objective: Software Engineer

## SUMMARY

- Master Graduate student in Information Technology from Monash with a strong focus on full-stack and mobile application development. Actively looking for a full-time job or internship opportunities.

Portfolio: https://kasaluoqi.github.io/my-react/

Linkedin: https://www.linkedin.com/in/hanfang-zhao-ba4635191/

Github: https://github.com/kasaluoqi?tab=repositories

## PROJECT EXPERIENCE

**RegionalVIC Insight**                                            *2019.03 - 2019.06*
*Full Stack Developer*                                                      *Melbourne*

An **ASP.NET Core web application** for graduate students to find a suitable regional area in Victoria to live in contains information visualisation with Mapbox and rating & recommendation system with multiple factors.

- **Project Demo:** http://www.regionalvicinsight.ga/
- **Project Github:** https://github.com/kasaluoqi/RegionalVIC
- **Technical Stack: ASP.NET Core+ JQuery + Bootstrap + Web API + SQL Server + Azure**.
- Write the HTML+JQuery+CSS of the entire website and implement user interactions and functions with the backend database.
- Configure Web API for clients and communicate with the database by using LINQ.
- Integrate Mapbox, D3.js, select2.js and several 3rd-party APIs and services into this project.
- Responsible for technical documents.
- Entirely under **Agile development (Scrum)** contains five sprint iterations. A five-member team performed the development and finished all the documents strictly by following the software engineering guideline.

**HealthMe**                                                       *2018.09 - 2018.12*
*Full Stack Developer*                                                      *Melbourne*

This **ASP.NET MVC** project aimed to demo the web application that can help people to search location with a certain name and plan their journey with routine generation. Besides, users can make reservations on the saved location.

- **Project Github:** https://github.com/kasaluoqi/HealthMe
- **Technical Stack: ASP.NET MVC + JQuery + Bootstrap + Web API + ASP.NET Identity**
- Write the HTML and Javascript & JQuery code of the responsive website.
- Design the database and configure its connection to the Visual Studio.
- Implement authentication and authorization.
- Use several APIs of Mapbox, fullcalendar.js and moment.js for function implement.

**Smart Energy Recommender**                                       *2018.03 - 2018.06*
*Android Developer & Backend Developer*                                     *Melbourne*

An **Android client** application which communicates with a **RESTful web server** established for manipulating, displaying the data from the back-end database and generating reports on Android devices.

- **Project Github:** https://github.com/kasaluoqi/SmartER
- **Technical Stack: Android + SQLite + RESTFul Web Service + JPA & JPQL**
- Design database and deploy backend server for providing RESTFul Service.
- Integrate weather API into the application.

- Implemented parsing JSON data from the server and export service API to achieve remote function call.
- Created accurate map markers based on user addresses saved in the backend database.
- Generated types of report charts with MPAndroidChart.

# RESEARCH EXPERIENCE

**Three-dimensional object reconstruction using patch significance correspondence**                    *2016.02 - 2017.03*

*First Author , East China Normal University*                    *Shanghai, China*

- Proposed an approach to reconstruct a three-dimensional (3D) model from a stream of RGB-D images collected from Kinect, includes developing Patch Significance Correspondence (PSC) algorithm to segment depth images into collections of superpixels, then applied it to a geometric registration algorithm to increase its accuracy. The preliminary findings were submitted to the Journal of Electronic Imaging and published on 7 April 2017.

# TECHNICAL SKILLS

- **Programming Languages:** Java, HTML5, CSS, JavaScript, C#, C++, Python, Swift, Kotlin.
- **Frameworks:** ASP.NET Core & ASP.NET MVC, Web API, JQuery, React JS, RESTFul API, AWS, Azure.
- **Others:** Git, OpenCV, Firebase, Oracle, SQL Server.

# COMMUNICATION SKILLS

- Able to deliver complex ideas effectively when discussed solutions with my supervisor and team members.
- Have Agile Development experience with 4 other teammates.
- Dozen of teamwork experience, among which I was usually worked as a team leader to negotiate with mentors and teammates.
- Have a strong ability to deliver reports and other written documents.
- Speak and write fluent Chinese and English.

# EDUCATION

**Monash University**                    *2017.07 - 2019.06*

*Master of Information Technology Information Technology*                    *Melbourne*

- GPA: 3.063 / 4.0 (**75.313%**) **Distinction**
- 6 of 15 units are High distinction ( >=80%). 5 of 7 elective units are relate to software development.
- Honours/Awards: International Merit Scholarship. (2017-2019)

*Major Subjects:*

- Internet Applications Development
- Enterprise Application Development for the Web
- Mobile And Distributed Computing Systems
- Advanced Mobile Systems

**East China Normal University**                    *2014.09 - 2017.07*

*Master of Science in Engineering Software Engineering*                    *Shanghai, China*

- GPA: 3.3 / 4.0 (**83.172%**) **High Disctionction.**
- 11 of 16 units are High distinction (>=80%).
- Worked as a Teaching Assistant in the course: Operating System for one year.
- Published a scholarly paper on the Journal of Electronic Imaging.

*Major Subjects:*

- Human-computer interaction and visualization technology
- Computer Vision

- Implementation of Data Management System

**Tianjin University**                                                        *2010.09 - 2014.06*
*Bachelor of Engineering Computer Science and Technology*                          *Tianjin, China*

- GPA: 3.3 / 4.0 **(Top 20%) High Distinction**
- Honours/Awards:
  - Merit Student (2011-2012).
  - Third prize in "Challenge Cup" Academic Competition (2013).
- As one of the percussionists of our university brass band, attended several performances.

*Major Subjects:*

- Principle of Programming (C++)
- Data Structure
- Algorithmic Design and Analysis
- Assembly Language