

# Yang (Joe) Wang

*Software Developer*

## EDUCATION

University of Melbourne (Australia)

Master of Information Technology

July 2018 – July 2020

University of California San Diego (USA)

Bachelor of Economics

Sep 2015 – Mar 2018

## TECHNICAL SKILLS

Native iOS Development (Swift)

Native Android Development (Android)

Web Development (HTML/CSS/JavaScript)

Hybrid App Development (Flutter/Firebase)

Data Analysis (Python/NumPy/Matplotlib)

## OTHER SOFTWARE SKILLS

Microsoft Office

Google G Suite

Adobe Photoshop / Affinity Photo

GitHub

MySQL

## SOFT SKILLS

Fast Learning

Troubleshooting

Researching

Critical Thinking

Teamwork

Communication

Multitasking

Detail-Oriented

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## ABOUT ME

As a recent IT graduate in July 2020, I have many hands-on experiences on multiple software development projects such as mobile app development and data analysis. My passion about technology and programming drives me actively learning the latest skills in software development. My goal is to build awesome applications that can help people improve their life and work.

## Individual Software Development Projects

### Dictionary Book @ App Store

iOS App Development, Sep 2020 – Oct 2020

- Pre-processed over local SQLite database with over 100,000 words.
- Implemented SQLite.Swift library to access local database and render vocabulary card.
- Adopted Core Data and iCloud support as persistent container to allow synchronization across iPhone, iPad and Mac.
- Implemented HTTPs calls to 3<sup>rd</sup> party server like Microsoft Azure and YouDao Dict to retrieve translation from English to Chinese.
- Decoded JSON file returned from server and render translation to vocabulary card.

### Num Trainer @ App Store

iOS App Development, July 2020 – Sep 2020

- Built custom numerical keyboard to support number games across multiple views.
- Implemented User Default and JSON file to store game data and user's records.
- Adopted native screenshot and share function.

## Team-based Academic Projects

### DeepFake GAN Models

Research Project, Jan 2020 – Feb 2020

- Selected, tested and trained open-source DeepFake models on Google CoLab and Amazon AWS platform.
- Implemented Python packages such as FFMEPG to handle media formation between video and image to generate DeepFake videos.
- Conducted an online survey on Google Form with 50 participants to measure visual quality of generated images, tabulated survey results to analyze model performance.
- Developed an Android application which sends 2 images to our remote server using OKHttp protocol and display deep fake result generated by trained model on server.

## OTHER SKILLS

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SEO Optimization

SQL Queries

Web API Knowledge

E-Commerce Management

Content Creation

### UniLib

#### Android Development, Mar 2019 – July 2019

- Designed main architecture of application for future implementation of different function modules by teammates.
- Conducted detail research on API and implementations of key sensors and functions, such as Fused Location, and accelerometer and Firebase.
- Bridged communication between teaching team and group members to improve application performance and stability.

### Twitter Semantic Analysis

#### Machine Learning Project, Mar 2019 – July 2019

- Prepared preprocess of over 30,000 raw tweets datasets, implemented natural language processing techniques such as tokenization and stemming.
  - Extracted multiple sets of dataset features using Word2Vec and Count Vectorization methods.
  - Implemented different learner models including multinomial Bayesian classifier and Artificial Neural Network (ANN) to predict tweets author.
  - Improved accuracy of predicting outcome of testing dataset and optimized models for less overfitting issue.
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## Work Experience

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### Analyst Intern

#### CAPTARGET LLC, San Diego Feb 2016 – May 2017

- Built Python script to normalize data formation and transfer data to FactSet, reduced time needed to process manually in Excel.
- Managed and analyzed a master list of Credit Unions in USA, reported to senior analysts and enhanced researching efficiency in this project.
- Implemented a Python module to compare and match email results generated by company system, improved accuracy by 40% and shortened the time spent on each spreadsheet.

### E-Commerce Manager

#### Seattle Cell Market LLC, Seattle Feb 2012 – Dec 2012

- Built over 30 individual SKUs on Amazon platform, developed purchasing strategies for contract suppliers,
- Analyzed current inventory quantity, manufacturing speed and available logistic channel/speed to strategically maintain healthy inventory cycle.
- Implemented SEO and Campaign techniques on Amazon.com and improved Unit-Session Ratio of best-selling product to 57%.
- Built weekly sales chart and analysis, reported to supervisor.