Joe Wang

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Education

University of Melbourne
Master of Information Technology
July 2018 – July 2020

University of California San Diego
Bachelor of Economics
Sep 2015 – Mar 2018

Key Skills

- Native iOS Development (SwiftUI)
- Native Android Development (Java)
- Web Development (HTML/CSS/JavaScript)
- Hybrid App Development (Flutter/Firebase)
- Data Analysis (Python/NumPy/Matplotlib)

Software Skills

- GitHub
- CocoaPods
- Adobe Photoshop / Affinity Photo
- Microsoft Office
- Google G Suite

Summary

I am a self-motivated and creative software engineer with experience of mobile app and web development, specialising in designing user interface and implementing business logic. My passion about programming and attention on details enable me to build awesome looking apps with easy-to-use functionalities.

Career History

iOS SOFTWARE ENGINEER
t2Fi LLC (Melbourne, VIC) Feb 2021 – Present

Key responsibilities

- Worked closely with product manager to translate clients' requirements into implementable user stories.
- Developed user interface and implemented business logics with MVVM architecture.
- Connected UI functions with backend API on AWS.
- Improved product quality through code review with colleagues.

Achievements

- Improving application response time and performance by 25% on average.
- Developed and launched apps to App Store that receiving 40% more positive reviews than legacy apps.

ANALYST INTERN
CAPTARGET LLC (California, USA) Feb 2016 – May - 2017

Key responsibilities

- Sorted and analysed email results generated by internal macro.
- Managed and maintained master list of Credit Unions in USA.

Achievements

- Implemented Python script to normalise data formation and transfer data to FactSet, reducing time required by 50%.
- Built a Python module to compare and match email results with 40% more accuracy and shortened the time spent on each spreadsheet.

Soft Skills

- Fast learning
- Researching
- Critical thinking
- Teamwork
- Multi-tasking
- Detail-oriented

Individual Software Projects

Money Tagger @ App Store
Mar 2021 – Aug 2021

An expense/income tracking app on iOS with multiple customisable tags to help stay on top of personal financial status.

Key features

- Built with Core Data and CloudKit to help sync and manage data across Apple devices like iPhone, iPad and Mac.

- Customisable tags with Emoji and colour options, allowing users to easily filter records.

- Optimised user interface to support iPad and Mac with full-screen view, side view and slide-over view.

Dictionary Book @ App Store
Nov 2020 – Jan 2021

A dictionary app on iOS with built-in data base of EN-CN vocabularies and online translation.

Key features

- Use SQLite to manage local database with 100,000+ vocabularies and use Core Data/CloudKit to support sync on different devices.

- Support 3rd party API calls to enable online translation and pronunciation, decode JSON and render UI in WebView.

Academic Research Projects

Deepfake with GAN Models
the University of Melbourne, Mar 2021 – Aug 2021

A research project on Deepfake using GAN models with self-trained model that can swap face of image into video.

Key responsibilities

- Trained one of three models to compare performance of models.

- Manipulate videos using FFMEPG library on Python.

- Developed basic demo app on Android with API request to our server on AWS.

Achievements

- Successfully trained models that can generate swapping face images with accepting results.

- Improved image quality and result with larger dataset.

- Presented live demonstration on phone with instant face swap results from selfie images to target image.