Robert(Kunliang) Wu

Senior iOS Software Engineer | Senior Mobile Developer

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An iOS developer with **7 years** of experience building robust, secure and maintainable iOS Apps, with **multiple successful apps launched to AppStore**.

A mature understanding of the full mobile development life-cycle, prevalent frameworks and libraries in **Objective-C**, **Swift**. Endeavouring to write high-quality code with **high cohesion & low coupling**.

☰ SKILLSET

Objective-C/Swift	+ Native SDK (**CoreGraphics, HealthKit, CoreAnimation, AVFoundation, AVKit, XCTest, Operation Queues, Grand Central Dispatch and ARKit**)
	+ 3rd-Party Frameworks (AFNetworking, Alamofire, **Realm**, Apollo for GraphQL)
	+ App Architecture and Modulation (MVP, **MVVC**), Responder-Chain, View Hierarchy Designs, Multi-threaded management
iOS Dev-Tools	+ Quality Control (**OClint**, XCode UI/Unit Test, lldb, Debug Instruments)
	+ App Analysis Tool (**Firebase Analytics**, **Sentry** bug/crash monitoring)
	+ **Cocoapods/Carthage** : Customized libraries Cocoapods repo maintenance (Carthage)
	+ Automation & CI/CD (**Git**, BashScript, **Fastlane**, Gitlab CI, Jenkins, **Docker**, Azure)
Misc	React(Web & RN)/Native Hybrid App Development, Swagger API, GraphQL
	+ 3rd-party service integration : **Firebase**, Admob(Google Ads), OAuth, Thumbor, Dropbox, GoogleDrive, GoogleMaps

💼 PROFESSIONAL EXPERIENCE

Present July 2019	Senior Analytst | Senior Software Engineer, NATIONAL AUSTRALIA BANK, Melbourne › Design and deliver new features for iOS App. `Test-Driven Development` `Infrastructure Dev` `Auto Code generating` `Native + React MiniApp Hybrid Development`
July 2019 May 2017	Software Engineer | Mobile Developer, BLITZM SYSTEMS PTY LTD, Melbourne › Consulted, designed and implemented mobile solutions for clients. `UI/UX` `Mobile Development` `Third-party service integration` `App Store release`
Dec. 2015 Apr. 2015	Full Stack Developer | Freelancer, MEET-TRUE INNOVATION CO., LTD, Melbourne › Confirmed and quoted requirements with clients, and implemented new standalone features. `Laravel` `Aliyun OSS` `SendCloud` `OAuth` `CDN`

🖥 PROJECTS

NAB   2019 - PRESENT

🔗 https://apps.apple.com/au/app/nab-mobile-banking/id373434223

NAB's Mobile Banking app.

Providing advisory opinions, delivering new modules and features while doing production support.

`Internal SDK infrastructures development` `BFF` `Test Automation` `ReactNative Hybrid modules and architectures` `Data Mapping front end`

SNAPNSEND   2017 - 2019

🔗 https://itunes.apple.com/au/app/snapnsend/id645799327

The APT SnapnSend App helps the users create and send personalized postcards instantly.

Server(LAMP) maintenance, app updates(user-data migration/backup, UI/UX & APIs upgrades).

`Imagick` `Data Migration` `PDFs manipulation` `CI/CD` `Docker` `AWS` `iPad/iPhone Adaption` `UIKit` `deprecated iOS SDK upgrading`

TunedGlobal
2018 - 2018

⤷ http://www.tunedglobal.com - White-brand App launched into multiple AppStore regions
User registration, UI/UX upgrading for music player, view hierarchy restructures, music streaming.

| Localization | Multi-Layer ChildViewControllers hierarchy | Customized Gestures | Thumbor | Swagger | CoreAnimation |

Vombo
2017 - Now

⤷ https://itunes.apple.com/us/app/vombo/id1380578357

The App helps the users record a video from different angles by synchronizing multiple videos into one by audio analyzing.

The entire project development, including audio analysis, video editing feature, data-model designing, social platform sharing and user behaviour analyzing.

| UIKit | CoreMedia | AVKit & CoreGraphics | Audio analyzing (AVFoundation) | Video editing & merging | PHPhotoLibrary |
| Multi-Threads(NSOperationQueue) | Runloop | Realm | Firebase Analytics | Cocoapods | Google Ads | In-App Purchase | XCTest |

Offroad Escape
2017 - 2018

⤷ https://itunes.apple.com/au/app/offroad-escape/id1327658077

Use downloaded maps for offline or out of service locations, create a profile of your vehicle and its details, plot a route on the tracks, and save pins and notes of your travels.

The entire project development except for the UI/UX designs. including GPS recording, map management, legend and map management(editing,searching and rendering), synchronization of user data, vehicle profile management.

| AFNetworking | OAuth(Facebook) | Firebase | GPS Recording | SQLite | CoreData | Map Rendering | GoogleMap | CoreGraphics | Geo-Data |

Broodly
2017 - 2018

⤷ https://www.facebook.com/broodly/ - Beta Testing, App Available Upon Request
Creates a profile of the baby and mother's health condition. It offers timely tips and keeps track of the mother's pressure, diet, weight and other health pointers with generated reports for Doctors and other users.

Data visualization (Charts and Diagrams). The feature also involves data-synchronizing and communicating with a HerokuApp service (DjangoRest + Swagger SDK).

| HealthKit | Data Visualization | Data Analysis | Charts(Swift) | Swagger(API integrations) | OAuth | SQLite |

HappyHR
2017 - 2019

⤷ https://happyhr.com/

This web App offers a versatile solution for small business with HR management. It has been integrated with mainstream tools such as MYOB, XERO in terms of both financial aspect and human resources management.

Server maintenance and migration (from VPS to EC2 on AWS), notification service configuration, and on-time deployment of the changes and fixes for both front-end and back-end with docker.

| Docker | Laravel | S3 Bucket | Real-time Notification Service | EBS | ECR | ECS | domain management | certificate management | MySQL |

StorybookHomes
2019 - 2019

⤷ https://www.storybook.com.au/ - Enterprise App
This app helps sales do presentations by projecting files stored online to AppleTV in semi-real time while keeping a high resolution (usually larger than 7200x6000).

The entire project development, including UI/UX designs, work-flow designs, data modelling, third-party SDK integration (Dropbox), file buffering and preloading, auto-refreshing scheme for outdated-link and modified files on the server.

| SDWebImage | DropboxSDK | File preloading | synchronization | OperationQueue | caching | re-developing lib (SDWebImage+private cocoapod repo) |

🎓 Education

| 2017 | Master's Degree of Information Technology - The University of Melbourne | Grade - H2B |
| 2014 | Bachelor's Degree of Computer Science - Shandong University(China) | Grade - 88.73 |

📄 Certifacte

| Cloud/DevOps : | Microsoft Certified Azure Developer Associate certification | MS AZ-204 |