iOS Engineer with over 10 years of experience developing iOS apps since 2009. Types of apps developed: • E-commerce Chat • Bluetooth 4.0 or iBeacon • 2D games Video streaming Music streaming MFI **Skills Programming Languages** • Objective-C (2009 - present) • Swift (3.0 - present) Languages Mandarin (Native) • English (Intermediate) iOS Skills UI Development Interface Builder (XIB) Storyboard Hardcoded UI AutoLayout Autoresizing SwiftUI Core Animation SpriteKit API Communication URLSession • gRPC with grpc-swift, connect-swift 3rd-Party Libraries (e.g., Alamofire) NSURLConnection (deprecated) Instant Messaging XMPP with XMPPFramework MQTT with MQTT-Client-Framework Socket with NSStream SignalR with SignalR-ObjC, SignalR-Client-Swift Live streaming with ijkplayer, HaishinKit, ReplayKit VOIP Databases CoreData KeyChain FMDB Realm NSKeyedArchiver/Unarchiver Plist NSUserDefaults Bluetooth BLE 4.0 or iBeacon integrations Game Development SpriteKit for 2D game development

Managed projects with XcodeGen. • Integrated data using SignalR. Customized UI. Used UICollectionView instead of UITableView for list UI. • Wrote scripts to switch between dev, gat, and production environments. • Implemented in-app language change.

• Customized UI.

Version Control

Git

• 3rd-Party Package Management

CocoaPods

Work Experience

Carthage

Swift Package Manager

EVERVICTORY TECHNOLOGY

iOS Engineer 2023/09 - 2024/09

Developed and maintained the company's finance app, video10

• Maintained and expanded the company's KLine framework.

• Used CADisplayLink + RunLoop to ensure smooth cell updates during UICollectionView dragging.

• Optimized UITableView to avoid excessive reloads when receiving gRPC data updates, based on Article2.

• Removed Storyboard and implemented UI using hardcoded methods for easier customization.

• Took over and maintained a legacy Objective-C project from a colleague in China.

• Coordinated with a third-party signing service to distribute the app without releasing it to the App Store.

Developed and maintained an in-house project management app that enabled employees to track project progress.

• Developed and maintained using Swift, with mixed integration of 3rd-party Objective-C.

• Developed using the MVVVR architecture.

Developed and maintained the 金田GT app, video9

• Implemented the MVVVR architecture.

• Implemented hidden UI features for app review.

Set up simple CI/CD using Jenkins and Fastlane.

• Learned Golang and studied server-side code.

HengYuan Technology Co. Ltd

iOS Engineer 2022/04 ~ 2023/07

Managed projects with XcodeGen.

• Integrated data using gRPC.

Name: Joe Pan

Summary

Mail: shinren.pan@gmail.com

GitHub: https://github.com/shinrenpan

Blog: https://shinrenpan.github.io

• Distributed apps via Firebase for dev/qat environments. Introduced Xcode 15's new Asset symbol generation. • Integrated interactions between HTML5 websites and the app. Managed dependencies with Swift Package Manager and CocoaPods. IM Software Development based on Tinode Refactored the iOS client from MVC to MVVVR architecture.

• Developed new features using Swift while integrating with Objective-C. Introduced XcodeGen for project management to avoid frequent Git conflicts. Researched the differences between Tuist and XcodeGen. • Led the gradual migration of the project from Objective-C to Swift. • Implemented the MVVVR architecture for development.

Gamania Group

• Wrote scripts for environment switching.

• Developed a comic reader and a novel reader.

Integrated web and app interactions for games.

• Introduced a live streaming SDK from a partner.

iOS Contract Engineer 2019/06 ~ 2022/02

iOS Contract Engineer 2018/09 ~ 2019/03

Developed and maintained the BeanFun App.

iOS Engineer 2016/08 ~ 2018/03

Developed and maintained the 國泰人壽 App.

• Developed new features using Swift.

Implemented the app using Objective-C.

• Developed the chat feature based on SignalR.

• Collaborated with the team to introduce the Clean Swift architecture. • Fixed existing bugs in Objective-C and refactored code using Swift. Developed new features in Swift while integrating with existing Objective-C code.

• Removed unmaintained third-party libraries, replacing them with native APIs. Replaced GCDWebServer for local m3u8 playback with native APIs, based on Article1.

Developed and maintained the company's app, which included features such as short/long videos, comics, novels, games, live streaming, and chat. video8

 Cached API data using FMDB to enable offline functionality. • Implemented an image caching mechanism that first displayed thumbnails, then downloaded and displayed full-size images. **Wistron Software**

Developed and maintained the app using Objective-C.

• Implemented extensive interactions between WebView and the app.

HOTELITYIN CO. LTD iOS Engineer 2016/03 ~ 2016/06

• Gradually replaced Objective-C code with Swift through refactoring.

• Implemented location-based clock-in functionality using Core Location.

Developed the beta version of the C2C secondhand trading app 行動拍拍賣.

Developed a templated app mechanism that allowed businesses to open stores via the app.

Developed an internal management system app for hotel staff to clock in and send real-time messages.

Maintained the existing app by fixing Objective-C bugs.

iOS Engineer 2015/04 ~2016/01 Developed and implemented app ideas proposed by the company's founder.

互聯網行動科技

• Developed an e-commerce feature. **PiPiMy**

iOS Engineer 2015/01 ~ 2015/03

• Implemented the app using Objective-C.

• Developed a chat feature based on XMPP.

• Created game functionality using SpriteKit.

• Implemented the app using Objective-C. Hiiir

iOS Engineer 2013/09 ~ 2014/06

• Collaborated with backend developers to establish the templating mechanism. iOS Engineer 2012/05 ~ 2012/08 Developed the beta version of 巷弄, a coupon-based app.

• Implemented the app using Objective-C.

• Replaced AutoResizing with AutoLayout.

Managed memory and optimized performance.

• Used Xcode Instruments to detect memory leaks and other issues.

• Resolved UI performance issues, ensuring smoother interactions.

• Implemented the app using Objective-C.

Developed the templated app architecture.

JamZoo iOS Engineer 2012/11 ~ 2013/06 Developed a variety of apps for clients.

• Implemented apps using Objective-C.

iOS Engineer 2010/09 ~ 2012/02

Developed a variety of apps for clients.

• Implemented apps using Objective-C.

• Implemented the app using Objective-C.

• Fetched data from APIs using NSURLConnection.

 Refactored the chat mechanism in the 單身銀行 app, replacing polling with MQTT. • Researched other chat technologies, such as XMPP and Socket. Developed an in-house app for a car rental company with offline functionality, video7. • Developed an in-house app for a hairdressing company. • Collaborated with ITRI to develop an HTML5-based eBook reader app, integrating UIWebView for communication between the web and app. **Viamedia Mobile Corporation**

• Created games using UIKit, video4, video5. • Implemented apps with downloadable skin functionality, video6. Explored additional features like SQLite and BLE. **KeyStone Semiconductor Corp.** iOS Engineer 2010/03 ~ 2010/07

Developed and maintained an app connected to MFI hardware, video2.

• Developed interactive apps using the Media Player Framework, video3.

• Implemented social sharing features for Twitter and Facebook. • Gained experience with the External Accessory Framework. Education Institute for Information Industry (III)

• Developed new features such as online radio and local music playback.

iOS Development Program (2009 – Six Months) Learned the fundamentals of Objective-C. Studied Cocos2d for iPhone. At the end of the program, collaborated with two other students to develop a rhythm-based game using Cocos2d for iPhone, which won the Gold Award in the 2009 Digital Content Series Mobile Game Creation Competition.

Post-graduation, collaborated with academy classmates on contract development for a music app, video1. **Chaoyang University of Technology** Bachelor's in Information Management (Evening Program, 2004/09 - 2007/01) **Kao Yuan University**

Associate Degree in Electronic Engineering