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

Swift Package Manager CocoaPods Carthage **Work Experience EVERVICTORY TECHNOLOGY** iOS Engineer 2023/09 - 2024/09

CoreData

KeyChain

NSKeyedArchiver/Unarchiver

• BLE 4.0 or iBeacon integrations

SpriteKit for 2D game development

Developed and maintained the company's finance app, video10

Used UICollectionView instead of UITableView for list UI.

• Maintained and expanded the company's KLine framework.

• Wrote scripts to switch between dev, qat, and production environments.

• 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.

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

• Implemented an image caching mechanism that first displayed thumbnails, then downloaded and displayed full-size images.

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

• Developed using the MVVVR architecture.

• Managed projects with XcodeGen.

• Implemented in-app language change.

Developed and maintained the 金田GT app, video9

• Set up simple CI/CD using Jenkins and Fastlane.

• Distributed apps via Firebase for dev/qat environments.

• Integrated interactions between HTML5 websites and the app.

• Managed dependencies with Swift Package Manager and CocoaPods.

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

• Developed new features using Swift while integrating with Objective-C.

Introduced Xcode 15's new Asset symbol generation.

• Integrated data using SignalR.

Customized UI.

FMDB

Realm

Plist

Game Development

Version Control

Git

Bluetooth

NSUserDefaults

• 3rd-Party Package Management

Name: Joe Pan

Summary

Mail: shinren.pan@gmail.com

GitHub: https://github.com/shinrenpan

Blog: https://shinrenpan.github.io

• Developed and maintained using Swift, with mixed integration of 3rd-party Objective-C. Implemented the MVVVR architecture. Managed projects with XcodeGen. Implemented hidden UI features for app review. Customized UI. • Integrated data using gRPC.

 Refactored the iOS client from MVC to MVVVR architecture. • Removed Storyboard and implemented UI using hardcoded methods for easier customization. • Learned Golang and studied server-side code. HengYuan Technology Co. Ltd

iOS Engineer 2022/04 ~ 2023/07

IM Software Development based on Tinode

• 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.

• Developed a comic reader and a novel reader. Integrated web and app interactions for games. • Introduced a live streaming SDK from a partner. • Coordinated with a third-party signing service to distribute the app without releasing it to the App Store.

• Wrote scripts for environment switching.

iOS Contract Engineer 2019/06 ~ 2022/02 Developed and maintained the BeanFun App.

Gamania Group

• Fixed existing bugs in Objective-C and refactored code using Swift. Developed new features in Swift while integrating with existing Objective-C code. • Implemented extensive interactions between WebView and the app.

iOS Contract Engineer 2018/09 ~ 2019/03

• Collaborated with the team to introduce the Clean Swift architecture.

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

Cached API data using FMDB to enable offline functionality.

iOS Engineer 2016/08 ~ 2018/03

Maintained the existing app by fixing Objective-C bugs.

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

Developed and maintained the 國泰人壽 App.

• Developed new features using Swift.

Wistron Software

- iOS Engineer 2016/03 ~ 2016/06 Developed an internal management system app for hotel staff to clock in and send real-time messages.
 - Implemented the app using Objective-C. Developed the chat feature based on SignalR. • Implemented location-based clock-in functionality using Core Location.

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

互聯網行動科技

• Implemented the app using Objective-C. • Developed a chat feature based on XMPP.

• Created game functionality using SpriteKit. • Developed an e-commerce feature.

- **PiPiMy** iOS Engineer 2015/01 ~ 2015/03
- Developed the beta version of the C2C secondhand trading app 行動拍拍賣.
- Implemented the app using Objective-C. Hiiir

iOS Engineer 2013/09 ~ 2014/06

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

 Developed the templated app architecture. • Collaborated with backend developers to establish the templating mechanism. iOS Engineer 2012/05 ~ 2012/08

• Implemented the app using Objective-C.

• Implemented the app using Objective-C. Managed memory and optimized performance. • Used Xcode Instruments to detect memory leaks and other issues.

Developed the beta version of 巷弄, a coupon-based app.

- Replaced AutoResizing with AutoLayout. • Resolved UI performance issues, ensuring smoother interactions. **JamZoo**
- iOS Engineer 2012/11 ~ 2013/06 Developed a variety of apps for clients.
- Implemented apps using Objective-C. 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**
- iOS Engineer 2010/09 ~ 2012/02
- Developed a variety of apps for clients.
- Implemented apps using Objective-C. • Fetched data from APIs using NSURLConnection. • Developed interactive apps using the Media Player Framework, video3.

- Created games using UIKit, video4, video5. • Implemented apps with downloadable skin functionality, video6. Explored additional features like SQLite and BLE.

- iOS Engineer 2010/03 ~ 2010/07 Developed and maintained an app connected to MFI hardware, video2.
- Implemented the app using Objective-C. • Developed new features such as online radio and local music playback.
- Implemented social sharing features for Twitter and Facebook. • Gained experience with the External Accessory Framework. Education
- Institute for Information Industry (III)
- 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
- **KeyStone Semiconductor Corp.**
 - iOS Development Program (2009 Six Months)