

# Kyrylo C.

## Senior iOS Engineer with VPN experience

### SUMMARY

- Motivated software engineer with 7 years of iOS development experience (Swift, SwiftUI, and Objective-C).
- Over 30 App Store project launches for iOS/macOS, including VPN, OpenVPN protocols, and deploy VPN servers)
- Comfortable in both sole developer and team player roles, team-lead experience
- Back-end experience with GoLang (last two years)
- Upper-Intermediate English
- Available to start ASAP

### TECHNICAL SKILLS

<b>Main Technical Skills</b>	Swift (7 yr.), Go, OpenVPN
<b>Programming Languages</b>	Go, Objective-C, Solidity, Swift (7 yr.)
<b>Scala Libraries and Tools</b>	Akka Actors
<b>UI Frameworks, Libraries, and Browsers</b>	Auto Layouts (Figma)
<b>Mobile Frameworks and Libraries</b>	Crashlytics, KeychainSwift, Moya
<b>.NET Platform</b>	.NET
<b>Databases &amp; Management Systems / ORM</b>	Firebase, Realm, RealmDb
<b>Cloud Platforms, Services &amp; Computing</b>	Oracle OCI
<b>Amazon Web Services</b>	AWS Cloudformation, AWS Cognito
<b>iOS Libraries and Tools</b>	APNS (Apple Push Notification Service), AVFoundation, CocoaPods, Combine framework, Core Location, MapKit, SceneKit, SwiftPM, SwiftUI, Tuist, UIKit, URLSession
<b>Platforms</b>	AppLovin, Firebase

<b>Deployment, CI/CD &amp; Administration</b>	CI/CD, OpenVPN
<b>Methodologies, Paradigms and Patterns</b>	DRY, MVC, MVVM, SOLID
<b>UI/UX/Wireframing</b>	Figma
<b>Version Control</b>	Git
<b>SDK / API and Integrations</b>	Google API, Google Maps API, Google Maps SDK, RESTful API
<b>Third Party Tools / IDEs / SDK / Services</b>	IMA DAI, XCode
<b>Operating Systems</b>	iOS, tvOS
<b>QA, Test Automation, Security</b>	mTLS, Postman, x509
<b>Mail / Network Protocols / Data transfer</b>	Network Extension, OpenVPN, WebSockets
<b>Virtualization, Containers and Orchestration</b>	OpenVPN
<b>Other Technical Skills</b>	AdMob, ARC, ChromeCast, CoreHaptics, Digital rights management (DRM), DispatchSemaphore, GCD, GRDB.swift, Instruments, iPadOS, Lock, MPOS, Multithreading, MVVM+Rx, NeedleFoundation, NF525, Notification extension, OOP/MVC, RevenueCat, Semaphore, Sign in with Apple/Google, SPM, SpriteKit, SSOT, StoreKit2, Storyboard, Swift-Certificates, UDF, URSession, VisionKit, Widget extension, WidgetKit, Wireguard, Xcode Cloud, XcodeGen, XIBs, YAGNI

## WORK EXPERIENCE

### Senior iOS Developer, BANK/Clearing House

SEP 2023 - MAY 2024

- Worked on an iOS mobile bank application with a team of 9 people.
- Built the architecture of the application, made a local cache for quickly displaying data, and made each module a separate mini-application that can work independently.
- Improved the previous application by reducing the number of crashes, and increased user retention by improving performance
- Introduce Data Driven UI using SwiftUI.
- Set up CI/CD



## Senior iOS Developer

Sep 2023 - Nov 2023

- Worked on 2 iOS POS applications with a team of 8 people.
- Integrate NeedleFoundation and separate each feature into individual components
- Introduce Xcode Cloud for delivering builds to QAs
- Implemented mTLS using URLSession
- Implemented X.509 certificate validation using the Swift-Certificates library
- Refactor SDK to modern Swift concurrency

## Team Lead iOS Developer, Ruliad

Sep 2022 - Sep 2023

- Worked on an online encyclopedia of alcohol and cocktails with a team of 7.
- Implement DataDriven UI
- Optimized application performance, resulting in a 30% improvement. Implemented efficient algorithms, identified and resolved bottlenecks, and fine-tuned critical components to enhance overall responsiveness and user experience
- Established seamless communication between iOS and backend teams for efficient project coordination

## Senior iOS Developer, GL

Aug 2020 - Aug 2022

- Worked on OTT platforms for famous broadcasting companies, with different team sizes from 20 to 8 developers.
- Enhanced app performance by 20% through the recreation of the shared Electronic Program Guide (EPG) across three applications
- Implemented a ChromeCast module enabling casting of both 'On Demand' (including DRM) and live content to devices with ChromeCast capability
- Integrate IMA DAI
- Worked closely with tvOS, iOS, and iPadOS. Organized shared code into Swift Package Manager, making it easy to reuse across all projects
- Customized specific logic within each project

## Middle iOS Developer

Aug 2019 - June 2020

- Worked on an mPOS platform for famous clothing brands with a team size of 40 people.
- Implemented NF525 fiscalization with my colleague
- Resolved database synchronization issues, deadlocks, and race conditions, tracked memory leaks, and implemented fixes.
- Synchronized the main mPOS app with the Self Checkout app using Bonjour for seamless communication between the two applications.

## Middle iOS Developer, Nebula labs Technologies

Aug 2018 - May 2019

- Developed sports, emoji, and corporate applications with team size of 3 people.



- Converted a Cordova application into a native iOS application, starting from scratch and delivering to the release candidate stage
- Worked with a team on a sports application

### Junior iOS Developer

Feb 2018 - Aug 2018

- Worked on an astrology app.
- Implement Birth charts

### Junior iOS Developer

Aug 2017 - Jan 2018

- Developed various projects as a solo developer, including readers, quizzes, time trackers, and forums.
- Developed apps from scratch to release candidates and successfully published them on the App Store.

## ACHIEVEMENTS

- **VPN Application:** Created applications from scratch for iOS/macOS, utilizing OpenVPN protocols, and deployed VPN servers
- **JumpyGo:** Created a game using SceneKit + SpriteKit, featuring various effects, background customization, texture modifications, and remote config for events
- **KharkivBus:** Real-time transportation tracking application for the city of Kharkiv
- **Vibrogy:** App that uses CoreHaptics for advanced vibration by template.
- **OneTouchWellness:** Health app with HealthKit, data exchange between Apple Watch and iPhone
- **Roblox Editor:** Project creation from scratch to completion, working solo – including UW mapping, texture creation based on applied templates, chosen colours, or stickers on various parts of the 3D mode
- **QRCode:** App for scanning and creating various types of QR codes with customization options
- **NDA:** NeedleFoundation, modularizing projects into components, and organizing them into separate packages using Swift Package Manager (SPM). Additionally, implemented mTLS using URLSession with x509 certificate validation and certificate pinning.
- **Challenging UI task:** Implemented an Electronic Program Guide (EPG) using UICollectionViewLayout, with custom cell dequeue from an inner cache for very wide cells (around 2000 pixels).
- **Most challenging logic task:** Identified and resolved a race condition in database reading and writing specifically during the receipt synchronization process. Introduced synchronization using Semaphore. To pinpoint the issue, created a payload for the database reading and writing processes, limiting calls to detect the specific place and scenario where the race condition occurred.



## **EDUCATION**

**Simon Kuznets Kharkiv National University of Economics**

2018-2020

**BA, Computer Science**

**Kharkiv Radio Engineering Vocational College**

2014 - 2018

**BA in Engineering, Computer Engineering**

