Mahmoud HodaeeNia

Senior iOS & Android Developer

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Summary

Senior iOS, macOS & Android Developer with 7+ years of experience, building high-performance, scalable apps with 5M+ downloads. Skilled in Swift, SwiftUI, AppKit, UIKit, Kotlin, Jetpack Compose, and performance optimization. Focused on enhancing app performance, improving UI responsiveness, and ensuring security. Experienced in multi-threading (GCD, async/await), networking (Alamofire, WebSockets), and CI/CD automation. Adept at mentoring teams, optimizing architectures, and solving complex performance bottlenecks. I specialize in designing scalable mobile solutions that balance speed, maintainability, and user experience, driving technical innovation across platforms.

Technical Skills

- **iOS & macOS Development:** Swift, SwiftUI, UIKit, AppKit, Cocoa, Combine, Core Data, XCTest, Core Animation, StoreKit, AVFoundation
- **Android Development:** Kotlin, Java, Jetpack Compose, Coroutines, Room, Retrofit, Dagger/Hilt, Firebase
- **Performance & Optimization:** Firebase Performance monitoring, Instruments profiling, async/await, multi-threading (GCD, Operation Queues), API optimization
- **Architecture:** MVVM, VIPER, Clean Architecture, Protocol-Oriented Programming, DI, MVC, MVP
- **CI/CD & DevOps:** Fastlane, GitHub Actions, Xcode Cloud, Gradle, CI/CD Pipelines
- **Cross-Platform Development:** Jetpack Compose, Kotlin Multiplatform
- **Testing & Quality:** Unit Testing, UI Testing, TDD, Performance Profiling
- **Leadership:** Code reviews, mentoring, leading technical discussions, streamlining workflows
- **Additional:** Git, REST APIs, Firebase, MapKit, FFMPEG, Push Notifications, App Store Connect

Experience

Senior iOS Developer at **Ovolab Srl. - A.S.Watson** *(Milan, Italy)* Jun. 2023 - Present

- Led migration from UIKit to SwiftUI, resulting in 40% faster development cycles
- Developed a Geofence system to automate location-based user interactions
- Implemented Apple Pay, enhancing in-app purchase experience
- Designed an advanced ad system using Criteo, handling dynamic sponsored content in complex lists
- Implemented VIP loyalty program features, increasing user engagement by 25%
- Integrated AppClip for seamless feature access without full app installation
- Led end-to-end development of multiple iOS retail applications, managing technical decisions and architecture
- Mentored junior developers and established iOS development best practices across three retail apps

Senior iOS & Android Developer at **Communere - EVCurious** *(Guildford, UK)* Oct. 2022 - Mar. 2023

- Designed and implemented offline-first architecture with GeoCaching system for both iOS and Android, reducing load times by 80%
- Developed modern UI using SwiftUI, Combine, and Jetpack Compose, Coroutines, improving app performance
- Established CI/CD pipelines and automated testing workflows using Fastlane, GitHub Actions
- Architected and deployed interactive map overlays for real-time geospatial tracking, enhancing UI responsiveness and accuracy
- Led and mentored a team of 3 developers, implementing best practices in iOS architecture and CI/CD workflows

Senior iOS Developer at **Communere - Agxio (Zeus)** *(Guildford, UK)* Dec. 2021 - Sep. 2022

- Developed ZeusBot iOS app for agricultural drone control, integrating DJI SDK
- Implemented mission planning & rollback safety features, ensuring secure drone operation
- Designed Google Maps SDK tools, enabling field boundary & obstacle marking
- Built a real-time data sync system, keeping local and cloud databases aligned
- Developed fault-tolerant error handling and recovery mechanisms, ensuring 99.9% uptime for mission-critical drone operations
- Designed scalable architecture using MVVM and Combine for real-time data processing
- Created reusable iOS components reducing development time for new features by 50%

iOS & Android Developer at **Navahang LLC** *(Helsinki, Finland)* 2018 - 2021

- Led development of iOS, Android, tvOS, and AndroidTV streaming applications with 1.5M+ active users
- Built an advanced video streaming pipeline (HLS, DASH, FFMPEG), reducing buffering by 35%
- Developed API & media caching system, ensuring offline usability and fast loading
- Engineered a scalable content delivery system with DNS over HTTPS and advanced caching strategies, improving streaming speed
- Designed and implemented a cross-platform custom video player with FFMPEG integration, optimizing performance and compatibility across iOS and Android
- Optimized app performance and memory usage across platforms, reducing crashes and improving responsiveness
- Created an iOS Widget for quick access to streaming content

Personal Portfolio Highlights

Instory for Insta - iOS & Android App View on App Store

- Built and maintained a feature-rich iOS app with 4.8/5 App Store rating and 99.9% crash-free rate
- Designed a hybrid SwiftUI-UIKit UI with Share Extension for seamless media integration
- Engineered a high-performance media pipeline (MPD-to-HLS conversion, FFMPEG)
- Developed secure, encrypted data storage (Realm/CoreData/Keychain)
- Leveraged StoreKit to manage subscription plans and optimize the in-app purchase experience
- Implemented GraphQL & REST API integration for media fetching
- Integrated background music detection (ShazamKit & AVFoundation)
- Integrated AdMob and IronSource for monetization, ensuring an optimized ad experience
- Implemented Fastlane & GitLab Actions for CI/CD, streamlining the release process

Education

M.S. in Computer Science & Engineering 2022 - 2024
Polytechnic University of Milan

B.S. in Computer Engineering 2017 - 2022
University of Isfahan