

Abdulrahman Hawila

iOS & Android Mobile Engineer

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Professional Summary

Senior iOS and Android mobile engineer with 8 years of experience building production apps in Swift and Kotlin. Specialises in access control, identity verification and visitor management systems, with hands-on experience in NFC (Emirates ID / EIDA), Bluetooth Low Energy (BLE), biometrics, kiosk mode and mobile app security hardening. Has delivered enterprise apps for banks and large organisations across the UAE, owning each project from architecture to App Store and Play Store release. Experienced with SwiftUI, Jetpack Compose, MVVM, Clean Architecture, RxSwift, Combine, REST APIs and CI/CD.

Work Experience

Senior iOS Engineer & Mobile App Developer, *IRIZ ID* 10/2023 – Present | Dubai, UAE

- Led the native iOS rebuild of IDmacs+ (previously Flutter), integrating BLE, NFC and Apple Intents, achieving 50% faster compilation and unlocking hardware-level sensor capabilities.
- Added Siri voice commands and double-tap gesture unlock, allowing users to open nearby access-controlled doors without launching the app or reaching the lock screen.
- Developed EidSoft, a cloud-based Employee & Visitor Management System deployed across multiple client organisations and handling high daily visit volumes; owned the React web portal, native iOS app (Swift) and native Android app (Kotlin).
- Delivered the ADIB visitor management system for Abu Dhabi Islamic Bank: a fully offline, standalone app on Idemia tablet hardware, rolled out to 10 of the bank's 24 branches. Implemented AES-GCM-256 encryption, NFC Emirates ID (EIDA) reading, RBAC with MFA, GPS geo-fencing and UAE PDPL-compliant data erasure policies.
- Built visitor management and incident-reporting applications for major UAE enterprises, integrating Emirates ID (EIDA) readers, MRZ passport scanners, fingerprint devices and biometric authentication.
- Implemented full kiosk mode for tablet deployments and hardened the security of multiple apps through data encryption, R8 code shrinking and obfuscation, and secure packaging.
- Automated build, test and release pipelines with Xcode Cloud CI/CD.

Senior iOS Engineer, *Blackstone eIT* 10/2022 – 10/2023 | UAE (Remote)

- Designed and built iOS apps across multiple client projects, ensuring performance, quality and responsiveness.
- Worked with cross-functional teams to define, design and ship new features.
- Identified and fixed bottlenecks and bugs, and maintained code quality, organisation and automation.
- Upheld Clean Architecture principles and best practices across all delivered apps.
- Evaluated and adopted new technologies to improve development efficiency.

Senior iOS Engineer, *Swvl* 10/2021 – 10/2022 | Egypt

- Worked with product management and UX to take ideas from concept to delivery.
- Mentored teammates while re-architecting the app from VIP to MVVM, significantly improving maintainability.
- Wrote scalable, modular, clean code and shipped new features with the team.
- Started code-health initiatives and ran knowledge-sharing sessions and workshops for the iOS chapter.
- Built static code analysers through scripting to improve stability and prevent regressions.

iOS Developer, *Spark Cloud* 10/2018 – 10/2021 | Remote

- Built and shipped multiple production e-commerce apps (Atyab Al Marshoud, Qadisya, Blue Nile, ORDERATT), taking each from design spec through App Store submission.
- Developed Naql Thaqeel, a logistics platform with real-time order tracking and in-app chat over WebSockets / Socket.IO.
- Developed Alghida, a social e-commerce app with story sharing, interaction feeds and a custom content layer.
- Applied MVVM+R architecture with RxSwift and Combine for reactive data binding across all projects.
- Implemented push notifications, deep linking and universal linking, and integrated Firebase (Crashlytics, Database, Storage).

- Used CoreData and Realm for local persistence and offline-capable data layers.

Education

Bachelor of Computer Engineering, *Pharos University in Alexandria, in collaboration with the Swedish Royal Institute of Technology (KTH)* 10/2013 – 06/2018
Graduation project: Automated Egyptian Railway System Grade: Excellent

Technical Skills

Mobile Development
Swift, Swift Concurrency, SwiftUI, SwiftSyntax, Swift Macros, Kotlin, Jetpack Compose, Kotlin Multiplatform, Flutter

Hardware and Identity
NFC, Emirates ID (EIDA), Bluetooth Low Energy (BLE), MRZ scanners, fingerprint, biometrics, kiosk mode, IoT, smart home

CI/CD and Tools
Xcode Cloud, Fastlane, CircleCI, Bitrise, XcodeGen, Sourcery, Git

Security
Mobile app security, AES-GCM-256, Android Keystore, R8, TLS 1.2/1.3, RBAC, MFA, geo-fencing, UAE PDPL compliance

Cloud and DevOps
AWS (EC2, S3, Lambda), Firebase, Docker, Kubernetes

iOS Frameworks
CoreBluetooth, CoreNFC, AppIntent, WidgetKit, Live Activities, HealthKit, WatchConnectivity, AppClips, In-App Purchase, Apple Pay, CoreData, Realm, Core Graphics, Core Text

Architecture
MVVM, MVVM+R, MVP, VIPER, VIP, Clean Architecture, TDD, RxSwift, Combine, Bond

Networking and APIs
REST APIs, GraphQL, Alamofire, URLSession, WebSocket, Socket.IO

Web
React

Databases
Realm, CoreData, Room, SQLite, MySQL, Oracle

Certifications

AWS Certified Developer – Associate
2023

AWS Certified Cloud Practitioner
2022

Languages

Arabic
Native

English
B2