Amgad ElNezamy

iOS Engineer | Swift, SwiftUI, UIKit

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PROFESSIONAL SUMMARY

iOS Engineer specializing in Swift and SwiftUI who has shipped four production App Store apps across travel and healthcare, including Trips (635K+ downloads, 4.2+ rating). Built a unified payment engine (Apple Pay, PayFort, Paymob, BNPL) for a white-label travel super-app serving Saudi Arabia and Egypt, and secure, privacy-first patient and practitioner health apps with HealthKit sync, telemedicine and English/French/Arabic (RTL) support. Strong in MVVM and Clean Architecture, Swift Concurrency (async/await, actors), secure session management, unit testing and CI/CD to the App Store.

TECHNICAL SKILLS

- **Languages:** Swift, Objective-C (basic)
- **iOS & UI:** SwiftUI, UIKit, Auto Layout, WidgetKit, Swift Charts, MapKit, Core Location, WebKit, PhotosUI, PassKit, AVFoundation, design systems, accessibility (Dynamic Type, VoiceOver, Reduce Motion)
- **Architecture:** MVVM, MVC, Clean Architecture (Use Case, Repository), SOLID, protocol-oriented programming, dependency injection, Strategy / Factory / Coordinator patterns, white-label (multi-brand) apps, feature flags
- **Concurrency:** Swift Concurrency (async/await, actors, @MainActor), Combine, GCD
- **Networking & Data:** URLSession, REST APIs, Codable, WebSocket, multipart uploads, JWT token refresh, Realm, Core Data, UserDefaults, Keychain, App Groups
- **Security:** Face ID / Touch ID (LocalAuthentication), Sign in with Apple, passkeys, OTP / 2FA, HMAC request signing, AES encryption, CryptoKit
- **Payments & Health:** Apple Pay, PayFort (Amazon Payment Services), Paymob, Tabby, Tamara, MisPay, Madfu, HealthKit
- **Services:** Firebase (Cloud Messaging, Crashlytics, Analytics / GA4), APNs, Microsoft Clarity, Jitsi
- **Testing & Delivery:** XCTest, CI/CD (Xcode Cloud, Azure DevOps, GitHub Actions, fastlane), TestFlight, App Store Connect, Git, Swift Package Manager, CocoaPods, SwiftFormat
- **Localization:** Arabic, English and French, right-to-left (RTL) layouts, runtime language switching
- **Ways of working:** Agile, code review, mentoring, technical documentation

PROFESSIONAL EXPERIENCE

iOS Engineer — Traveler Club (Trips & Ellocanda)

Riyadh, Saudi Arabia (Remote, Contract) | Feb 2024 – Present

- Launched Trips on the App Store (635K+ downloads, 4.2+ rating) and its Egyptian sister app Ellocanda (The Prime Collection) from one SwiftUI codebase using a compile-time brand configuration.
- Built a unified payment engine (Strategy, Factory and Coordinator patterns on async/await) for hotels, flights, visas and sports tickets, supporting Apple Pay, PayFort, Paymob, wallet, bank transfer and BNPL (Tabby, Tamara, MisPay, Madfu).
- Made checkout retry-safe with persisted reservation identities, so payment retries and method switches never create duplicate bookings.
- Delivered NDC flight booking (offer-price checks, branded fares, baggage and meals, seat maps) alongside GDS airline content.
- Built a sports-ticketing module end to end with interactive SVG stadium maps, and three privacy-first WidgetKit widgets (Search, Next Trip, Wallet).
- Built a Wego partner checkout from universal links with strict link validation and price-change acceptance, covered by 85 regression tests; wrote most of the app's ~170 XCTest unit tests.
- Implemented sign-in with OTP, Sign in with Apple and passkeys, live Arabic/English switching with RTL layouts, and GA4 e-commerce funnel analytics.
- Contributed to hotel booking (map results, room packages, pay later), Schengen visa applications with document uploads, and in-app chat support with voice notes.
- Set up CI/CD with Azure DevOps and Xcode Cloud; built reusable SwiftUI components that cut feature delivery time by up to 60%, and redesigned core journeys in SwiftUI with 80% higher engagement reported.

iOS Engineer — MedicaProf

France (Remote, Part-time) | Aug 2025 – Present

- Launched MedicaProf (patient app, iPhone and iPad) and MedicaProf Pro (practitioner app, iPhone) on the App Store for France and Syria, in English, French and Arabic (RTL).
- Built the patient app's core on a feature-modular MVVM + Use Case + Repository architecture (8 modules, ~74K lines of Swift): doctor booking, Jitsi video visits with Picture in Picture, medical records, family accounts and a medical timeline.

- Engineered a background HealthKit sync for 24 data types using anchored queries, an actor-owned idempotent upload queue and safe handling of revoked permissions.
- Implemented secure sessions: rotating refresh tokens with actor-based single-flight refresh, 2FA OTP with trusted devices, Face ID / Touch ID with device-only Keychain items, and per-member sessions for family accounts.
- Built and shipped MedicaProf Pro end to end (~51K lines of Swift): verified onboarding, clinic schedules, a client-side reschedule slot engine, Jitsi TeleMed and practice statistics with Swift Charts.
- Engineered account isolation in MedicaProf Pro with session generations and actor-coalesced token refresh, so late responses or push tokens never leak between accounts.
- Added WebSocket live updates and push notifications (APNs / FCM) with in-app routing, plus remote feature flags for dark launches.
- Set up CI/CD to TestFlight with fastlane and GitHub Actions, and built an in-house SwiftUI design system with light/dark themes, Dynamic Type and Reduce Motion.
- Mentored junior developers, led code reviews and wrote the architecture and design-system documentation.

Career Break — Professional Development

Apr 2022 – Feb 2023

- Transitioned from web development to native iOS development: learned Swift, UIKit, SwiftUI, MVC, Auto Layout, Core Data, REST APIs with JSON and Codable, and AVFoundation in Xcode with Git.
- Built personal apps along the way, from UIKit utilities and games to SwiftUI apps with animations, gestures and AppStorage.

Frontend Developer Intern — EASYSCHOOLS

Cairo, Egypt (On-site, Internship) | Jun 2018 – Aug 2018

- Worked on the web front end of EasySchool, a platform that keeps schools in touch with students and parents: responsive pages with HTML5, CSS, Bootstrap and JavaScript, JSON data and on-page SEO.

SELECTED PROJECTS

Full portfolio with case studies: amgadelnezamy.com

- **Trips — Travel Super-App (App Store):** hotels, GDS/NDC flights, Schengen visas and sports tickets with one checkout for 10 payment methods; ~140K lines of Swift. SwiftUI, Combine, async/await, WidgetKit, Realm.
- **Ellocanda (App Store):** Egyptian white-label of Trips for The Prime Collection, with Paymob instalments and a multi-tenant backend. SwiftUI, Paymob SDK.
- **MedicaProf (App Store):** patient health app with doctor booking, video visits, medical records and Apple Health sync for 24 data types. SwiftUI, HealthKit, actors, WebSocket.
- **MedicaProf Pro (App Store):** practitioner app with verified onboarding, clinic scheduling, TeleMed and practice statistics. SwiftUI, Swift Charts, MapKit, Keychain.
- **Vinitto:** e-commerce app for a shoe brand with catalogue, cart and Sign in with Apple / Google. UIKit, MVC, Core Data.
- **Personal apps:** 20+ SwiftUI and UIKit apps, including Tripo (travel planner and journal) and an Arabic hadith reader with tasbeeh counter and prayer times.

EDUCATION

BSc (Hons) Informatics and Computer Science, Software Engineering

The British University in Egypt, dual award with London South Bank University (UK) | Graduated Sep 2021

Second Class Honours.