

MUHANNAD EL MENAWY

Senior iOS Software Engineer

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PROFESSIONAL SUMMARY

Senior iOS Engineer with 5+ years building and shipping native apps in Swift and SwiftUI across AI video editing, EV mobility, e-commerce, and IoT smart home. Two products live on the App Store and Google Play, owned end to end from architecture and UI through App Store release. Deep expertise in MVVM, Combine, Swift Concurrency, and Firebase, backed by TDD, CI/CD, and Instruments profiling.

TECHNICAL SKILLS

- **Languages:** Swift, Objective-C, C
- **UI:** SwiftUI (custom controls, animations, transitions, dynamic theming), UIKit, Auto Layout, Human Interface Guidelines, accessibility (VoiceOver, Dynamic Type), dark mode, universal apps
- **Architecture & Concurrency:** MVVM, Clean Architecture, protocol-oriented programming, Combine, Swift Concurrency (async/await)
- **Backend & Data:** Firebase (Firestore, Authentication, Cloud Functions, FCM push notifications, Analytics), REST API integration, URLSession, Codable, real-time data sync
- **Quality & Tooling:** Xcode, Instruments (profiling, memory management, leak detection), XCTest, Test-Driven Development, Git, CI/CD (Bitrise), Jira, Swift Package Manager, App Store submission and release management
- **ML & Media:** Core ML, Computer Vision (IBM certified), AVFoundation, video processing pipelines
- **Process:** Agile, Scrum, sprint planning, code review, cross-functional collaboration, UI/UX design

EXPERIENCE

MILLENNIUM SYSTEMS DESIGN | Lahore, Pakistan (remote)

Senior iOS Software Engineer · May 2024 – Present

- Lead iOS development of an AI powered video editing platform that automates complex editing tasks and streamlines post production for content creators.
- Build the app in SwiftUI and Combine on an MVVM architecture, backed by XCTest unit tests and automated CI/CD releases through Bitrise.
- Integrate AI features including smart scene detection, background removal, and auto captioning with machine learning engineers, taking them from prototype to production.
- Engineer AVFoundation video processing and preview workflows, profiling with Instruments to keep timeline scrubbing smooth on older devices.

VOLTYKS | Cairo, Egypt

Mobile Team Lead (iOS) · May 2023 – Apr 2024

- Led development of Egypt's first peer to peer EV charging marketplace from concept to App Store and Google Play release; the app holds a 5.0 App Store rating.
- Managed a cross disciplinary team of iOS, backend, and design; owned architecture decisions, code review standards, and delivery against sprint commitments in Jira.

- Designed the real time data layer syncing live vehicle and session telemetry to the app using Firebase and Firestore.
- Implemented MapKit and Core Location tracking with geofencing for charging station proximity alerts, plus secure request, approval, and payout flows.

GRAINOZ | Cairo, Egypt

Mobile Team Lead (iOS) · May 2022 – Apr 2023

- Directed end to end development of a pet care and e-commerce app covering personalized product recommendations, vet booking, and pet health tracking.
- Built the full purchase funnel: product catalog, cart, checkout, and payment integration, plus a booking system for veterinary appointments.
- Defined product scope with stakeholders, translated requirements into technical specs, and led the team through release cycles.

GALSIE | Beirut, Lebanon (remote)

Senior iOS Software Engineer · Feb 2021 – Apr 2022

- Developed the Galsie smart home app in Swift and SwiftUI, covering device onboarding, control surfaces, and real time device state across the home.
- Implemented Firebase Authentication, Firestore data sync, and Cloud Functions for device automation and notifications.
- Partnered with backend developers, designers, and product managers to define app features and align delivery with company objectives.

SHIPPED PRODUCTS

- **Voltyks** — peer to peer EV charging marketplace. App Store and Google Play. 5.0 rating.
- **Hertshe** — curated beauty marketplace with full checkout and fast delivery. App Store and Google Play.

EDUCATION & CERTIFICATIONS

- **B.Sc. Computer and Communication Engineering** — Alexandria University, 2021
- **Machine Learning with Computer Vision** — IBM, 2022
- **Deep Learning (edX Verified Certificate)** — IBM, 2022
- **Self-Driving Cars Fundamentals** — University of Toronto, 2022
- **iOS Development Full Diploma** — IDE, 2022
- **Embedded Systems AVR Diploma** — Edges Interactive, 2023

Graduation thesis: deep learning mobile application for detection, segmentation, and classification of COVID-19 from chest medical images, built to support doctors and radiologists.

LANGUAGES

Fluent English (C2) · Native Arabic · Conversational French