

Mahmoud Khairy Al-Talbawy

Flutter & Mobile Developer | Clean Architecture | AI/ML Integration | Remote (UTC+2)

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github.com/mahmoud-talbawy Egypt - Available Immediately

PROFESSIONAL SUMMARY

Flutter & Mobile Developer with **3+ years** of production experience shipping cross-platform apps to both major app stores. End-to-end ownership — from architecture design through backend integration to deployment and post-launch optimization. Specialized in building complex systems: **real-time platforms, payment integrations, AI-powered features**, and multi-language apps serving diverse markets.

KEY ACHIEVEMENTS

- Shipped **multiple production apps** to both major app stores with full CI/CD pipeline via GitHub Actions
- Scaled e-commerce platform to **500+ vendors onboarded** with live payment processing and **zero transaction failures** at launch
- Built AI computer vision app achieving **94%+ accuracy** with on-device inference — Excellent with Honors
- Developed full-stack SaaS with **5-level role-based auth**, PDF/Excel export, and automated CI/CD deployment

TECHNICAL SKILLS

Mobile:	Flutter, Dart, Cross-platform (iOS + Android), Responsive/Adaptive UI, Custom Widgets, Animations, Deep Linking, Push Notifications (FCM), Capacitor
Architecture:	Clean Architecture, Provider, BLoC/Cubit, MVVM, SOLID, Dependency Injection (get_it), GoRouter, State Management
Testing:	Unit Testing, Widget Testing, Integration Testing, Vitest
Backend:	Supabase (Auth, Realtime, Edge Functions, RLS), Firebase (Firestore, Auth, FCM), Node.js/Express, Python/Flask, REST APIs, PostgreSQL, MongoDB, JWT
Packages:	Dio, GoRouter, sqflite, shared_preferences, flutter_map, image_picker, pdf/printing, WebSockets, Google AdMob, In-App Purchases
AI / ML:	TensorFlow, Computer Vision, On-Device ML Inference, OpenCV, Object Detection, AI-Assisted Development (Claude Code, Codex)
DevOps:	Git, GitHub Actions (CI/CD), Docker, Linux, Playwright, App Store Connect, Google Play Console
Web / 3D:	JavaScript (ES2022+), Three.js/WebGL, HTML5, CSS3, Vite
Other:	Agile/Scrum, Internationalization (i18n/l10n, Arabic RTL), Code Review, Performance Optimization

PROFESSIONAL EXPERIENCE

Flutter & Mobile Developer

May 2022 - Jul 2025

GenSystems | Full-time | Remote

- Shipped multiple production Flutter apps (Azeema, Relax, My Goals) to **Google Play Store and App Store**, serving users across Saudi Arabia and Egypt
- Architected "Azeema" - a multi-vendor catering platform for Saudi Arabia with real-time ordering, geolocation-based discovery, and delivery tracking using **Supabase Realtime**
- Designed scalable app architecture using **Clean Architecture with Provider state management**, ensuring maintainability across 40+ screens
- Wrote **unit tests and widget tests** to prevent regressions and ensure code reliability across releases
- Integrated **dual payment gateways** (Moyasar, Tamara) with secure 3DS verification flows for live e-commerce transactions
- Built **pixel-perfect responsive UIs** with custom widgets, complex animations, and reusable component library
- Implemented **Arabic RTL localization** (i18n) with Cairo font across all apps
- Collaborated with cross-functional teams in **Agile sprint cycles**, participating in code reviews and sprint planning

Python Developer & Automation Specialist

Jan 2024 - Present

Freelance | Part-time | Remote

- Built custom **Python web scraping tools** for automated business lead extraction processing **1,000+ records** per campaign with **98% accuracy**
- Integrated **Google Sheets API** for real-time database synchronization and automated workflow pipelines
- Achieved **5x improvement** in extraction speed over manual data collection through async processing
- Impact: Eliminated **80% of manual research time** for clients, enabling scalable outreach

KEY PROJECTS

Azeema - Catering Platform

[Flutter](#) | [Supabase](#) | [Moyasar](#) | [Tamara](#) | [Google Maps](#)

Multi-vendor platform for Saudi Arabia. 500+ restaurants, real-time ordering, dual payment gateways, geolocation, delivery tracking. Published on Google Play and App Store.

Esharty - AI Sign Language App

[Flutter](#) | [TensorFlow](#) | [Computer Vision](#) | [Supabase](#)

Real-time sign language recognition with 94%+ accuracy. On-device TensorFlow inference, offline-capable. Graduation project - Excellent with Honors.

Goblet Gobblers 3D

[Three.js](#) | [Capacitor](#) | [Supabase Realtime](#) | [AdMob](#) | [IAP](#)

Cross-platform 3D board game. AI opponents (Minimax), real-time multiplayer via WebSockets, monetization (AdMob + IAP with HMAC-SHA256), 4 languages. Pre-launch Q2 2026.

Landmark - Construction SaaS

[Flutter](#) | [Node.js/Express](#) | [MongoDB](#) | [Docker](#) | [GitHub Actions](#)

Full-stack SaaS for construction project management. Multi-role auth (5 levels), Dio HTTP client, GoRouter navigation, PDF/Excel export, CI/CD pipeline to GitHub Pages.

Londoners - UK Social App

[Flutter](#) | [Supabase](#) | [flutter_map](#) | [In-App WebView](#)

UK property rental platform with Clean Architecture. Guesty API integration, ChargeAutomation payments with 3DS, maps, video player.

Automated Trading System (EGX)

[Python](#) | [Playwright](#) | [Node.js](#) | [Telegram API](#)

End-to-end automated trading for the Egyptian Exchange. Browser automation for order execution, technical analysis signals, Telegram bot alerts.

EDUCATION

Bachelor of Computer Science

Higher Technological Institute (HTI), Egypt
Graduated 2024 | Focus: Software Development, AI/ML, Mobile

CERTIFICATIONS

AI, Machine Learning & DSP

Electronics Research Institute - 120 hours

ADDITIONAL

Languages:	Arabic (Native), English (Professional)
Availability:	Immediate Remote
Work Type:	Full-time or Contract
Time Zones:	UTC+2 (US/EU overlap)
Platforms:	iOS + Android deployment

CORE COMPETENCIES

Flutter | Dart | Mobile Development | iOS | Android | Clean Architecture | State Management | BLoC | Provider | Unit Testing | Widget Testing | Supabase | Firebase | REST APIs | Dio | GoRouter | Python | JavaScript | Node.js | MongoDB | PostgreSQL | TensorFlow | CI/CD | GitHub Actions | Docker | Git | SOLID | Agile | Google Play | App Store | Code Review | i18n