

# EMAD ABD EL-HAMIED

Senior Flutter Developer | 5+ Years Experience

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## PROFESSIONAL SUMMARY

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Results-driven Senior Flutter Developer with 5+ years of experience architecting and delivering scalable, high-performance mobile and Flutter Web applications across real estate, logistics, edtech, and on-demand service industries. Demonstrated expertise in leading cross-functional engineering teams, implementing Clean Architecture and TDD, and shipping 15+ production apps to the App Store and Google Play. Recognized for translating complex business requirements into pixel-perfect, accessible interfaces with measurable impact on user engagement and retention. Adept at mentoring developers, driving full product cycles from discovery to deployment, and continuously adopting modern Flutter ecosystem practices.

## CORE COMPETENCIES

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Flutter Development, Dart Programming, Flutter Web, Mobile Architecture, Clean Architecture, Test-Driven Development, State Management (Bloc, GetX, Riverpod), Dependency Injection, RESTful API Integration, Firebase, Real-Time Communication (Socket.io, Pusher, Agora), CI/CD Pipelines, Team Leadership, Agile / Scrum, UI/UX Implementation, Performance Optimization, Payment Gateway Integration, Advanced Google Maps Integration, Cross-Platform Development, Code Review, Mentoring

## PROFESSIONAL EXPERIENCE

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### Senior Flutter DeveloperJan 2025 – Present

*Rewash | Saudi Arabia (Remote) | Full-Time*

- Lead a mobile engineering team of 5 developers; defined coding standards, Clean Architecture scaffolding, and mandatory code review processes that reduced bug escape rate by 35%.
- Owned end-to-end Brand Relaunch: re-architected, redesigned, and deployed a cross-platform Flutter application (Android & iOS) aligned with new brand identity — delivered 2 weeks ahead of schedule.
- Reduced application cold-start time by 42% through lazy loading, isolate-based computation, and widget tree optimization.
- Established sprint cadence with product and design teams; introduced story-point estimation that improved delivery predictability by 28%.
- Integrated Stripe payment gateway, real-time GPS tracking, and push notification services with 99.9% uptime.

### Senior Flutter DeveloperSep 2023 – Jan 2025

*SAMH Real Estate | Saudi Arabia (Remote) | Full-Time*

- Architected and delivered a full-featured real estate platform from the ground up for the Saudi Arabia market (Android & iOS) — 10,000+ downloads within first month.
- Implemented 3D property visualization using Matterport SDK, virtual tour navigation, auction flow, and advanced search with 20+ filter combinations.
- Built an advanced Google Maps experience with draw/polygon-based area search, animated custom markers, and real-time data overlays for property listings.
- Built and integrated a secure payment gateway supporting multiple providers; designed UI/UX in close collaboration with the brand team.
- Passed App Store and Google Play compliance reviews on the first submission for both platforms.
- Refactored legacy Flutter codebase to layered Clean Architecture — decreased onboarding time for new developers from 3 weeks to 5 days.
- Optimized list rendering with SliverList virtualization and image caching; reduced average scroll frame-drop rate by 60%.

### Mid-Level Flutter DeveloperSep 2022 – Sep 2023

*EnterPerform | Bahrain | Full-Time*

- Developed cross-platform mobile applications and responsive Flutter web apps to industry-standard requirements for 3 concurrent client projects.
- Collaborated with product managers on feature scoping and sprint planning; consistently delivered milestones on time.

- Refactored legacy codebases to modular MVVM architecture — improved test coverage from 0% to 65% and reduced regression defects.

## Junior Flutter Developer Jan 2021 – Aug 2022

Moltaqa | Egypt | Full-Time

- Built and shipped 7 production mobile applications across iOS and Android — covering car wash, taxi, delivery, and car rental verticals.
- Implemented real-time features using Socket.io, Firebase Realtime Database, and Pusher across multi-role apps (Client + Driver), including in-app chat and Agora-powered voice/video calling between clients and drivers.
- Developed strong Dart and Flutter fundamentals; mastered REST API integration, local storage (Hive), and custom animation controllers.
- Contributed to TDD-based projects with 70%+ unit and widget test coverage using Flutter's testing framework.

## CONCURRENT PART-TIME & CONTRACT ENGAGEMENTS

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Alongside the full-time roles above, delivered the following part-time and contract projects:

### Senior Flutter Developer (Part-Time) 2022 – Present

Fast World Solution | Egypt | Part-Time

- Designed the foundational Clean Architecture base template adopted as the company-wide standard for all Flutter projects.
- Led the mobile team; supervised architecture decisions, code quality reviews, and App Store / Google Play publishing pipeline.
- Delivered 6 production applications across transportation, delivery, and service verticals — all achieving 4.5+ star ratings.

### Senior Flutter Developer (Part-Time) 2023 – 2024

Addicta | Egypt | Part-Time

- Designed, developed, and shipped mobile applications and Flutter web apps for 4 clients across e-commerce and service verticals.
- Introduced agile sprint planning and milestone tracking; improved on-time delivery rate from 60% to 90% across active projects.
- Modularized a 3-year-old monolithic Flutter codebase into feature modules — reduced build time by 55% and enabled parallel team development.
- Mentored 2 junior developers through code reviews, architecture walkthroughs, and pair programming sessions.

### Flutter Developer (Contract – Emergency Coverage) Sep 2024 – Dec 2024

iStoria | Saudi Arabia (Remote) | Contract

- Stepped in as technical lead on a short-term contract basis to maintain continuity of the iStoria English-learning platform during a critical team disruption.
- Drove feature delivery using Flutter and GetX; integrated analytics SDK, in-app purchase flow, and third-party content APIs within tight deadlines.
- Resolved 40+ critical runtime crashes and memory leaks identified via Firebase Crashlytics — improved app stability rating from 3.4 to 4.7 stars.
- Implemented background audio playback, offline content caching, and adaptive UI for tablet and phone screen sizes.
- Coordinated CI/CD deployment pipeline via CodeMagic; reduced release cycle time from 2 weeks to 4 days.

### Flutter Developer (Freelance) 2025

Al-Qostas (القسطاس) | Saudi Arabia | Freelance / Contract

- Built core features for a dual-app legal consultation platform (Client app + Lawyer app) live on the App Store and Google Play.
- Implemented in-app chat and voice/video calling between clients and lawyers using Agora, and a Google Maps-based lawyer discovery and search experience.

- Delivered real-time messaging and call infrastructure with Socket.io, integrated across both the client and lawyer applications.

## FEATURED PROJECTS

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### [Al-Qostas \(القسطاس\) — Legal Consultation Platform \(Saudi Arabia\)](#)

Dual-app legal services platform connecting clients with licensed lawyers, featuring in-app chat, Agora-powered voice/video calling, and a Google Maps-based lawyer search and discovery experience. Stack: Flutter, Agora, Socket.io, Google Maps, Firebase, REST API. Platforms: Android & iOS (Client + Lawyer apps).

### [Rewash — On-Demand Car Wash Platform](#)

Professional at-home car wash booking app with real-time GPS tracking, multi-provider management, scheduling, and integrated payment. Architected with Clean Architecture and Bloc state management. Stack: Flutter, Bloc, Firebase, Google Maps, Stripe, Clean Architecture. Platforms: Android, iOS.

### **SAMH — Real Estate Platform (Saudi Arabia)**

Full-featured property marketplace for buying, selling, and renting real estate in Saudi Arabia. Features 3D property visualization, Matterport-powered virtual tours, auction module, advanced search with 20+ filters, Google Maps, and secure multi-provider payment gateway. Stack: Flutter, Clean Architecture, Matterport 3D, Google Maps, Payment Gateway, Firebase. Platforms: Android & iOS.

### [iStoria — English Learning App](#)

First story-driven English learning platform globally. Tracks learner progress from beginner to professional proficiency. Delivers 400+ Oxford-curated vocabulary words per month through interactive speaking, reading, and listening modules. Stack: Flutter, GetX, In-App Purchase, Audio Playback, REST API, TDD. Platforms: Android, iOS.

### [Terilla — Freight & Logistics Management](#)

Enterprise truck shipment management platform. Enables load posting, carrier matching, real-time GPS route tracking, driver assignment, digital invoicing, and secure payment processing for logistics businesses. Stack: Flutter, Bloc, Google Maps, REST API, Firebase, Socket.io. Platform: Android.

### **Lamsa — Car Wash Platform (TDD + Clean Architecture)**

Dual-app car wash ecosystem (Customer + Provider) built end-to-end with Test-Driven Development, layered Clean Architecture, and Bloc state management. Achieved 70%+ test coverage. Stack: Flutter, TDD, Clean Architecture, Bloc, Firebase, Google Maps. Platforms: Client Android, Client iOS, Driver Android, Driver iOS.

### **Lee Taxi — Multi-Service Delivery App (Saudi Arabia)**

Dual-app platform (Customer + Driver) for water, gas, and product delivery with ride-booking functionality, featuring live map tracking with animated markers, in-app chat, and Agora-powered voice calling between customer and driver. Available in the Saudi Arabia market on both Android and iOS. Stack: Flutter, Google Maps, GetX, REST API, Socket.io, Agora, Firebase.

### **Dentgram — Dental Industry App (Bahrain)**

The most comprehensive dental services application in Bahrain. Built with TDD and Clean Architecture. Features clinic discovery, appointment booking, and patient management. Stack: Flutter, TDD, Clean Architecture, REST API, Firebase.

### **Makanvi — 3D Real Estate App (Bahrain)**

Property marketplace featuring Matterport-powered 3D virtual property tours, interactive floor plans, and integrated real estate search. Available in the Bahrain market. Stack: Flutter, Matterport 3D, Google Maps, Clean Architecture, Firebase.

## TECHNICAL SKILLS

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**State Management:** Bloc, Cubit, GetX, Provider, Riverpod, State Machine

**Architecture:** Clean Architecture, MVVM, MVC, TDD, Design Patterns, Clean Code, DDD, Feature-First / Modular Architecture, Repository Pattern, Dependency Injection (GetIt, Injectable)

**Testing & Code Quality:** Unit / Widget / Golden Testing, Mockito / Mocktail, build\_runner, Freezed, json\_serializable

**Backend & APIs:** RESTful APIs, GraphQL, Firebase, Supabase, Socket.io, Pusher, WebSocket

**Real-Time & Communication:** Socket.io, Pusher, Agora (Voice/Video Calling), In-App Chat, Push Notifications

**Maps & Geolocation:** Google Maps SDK, Live GPS Tracking, Draw/Polygon-Based Search, Custom Animated Markers, Map Data Visualization & Overlays

**Cross-Platform:** Flutter Mobile (iOS & Android), Flutter Web, Responsive & Adaptive UI

**Local Storage:** Hive, Isar, Firebase Firestore, SQLite, SharedPreferences, Secure Storage / Data Encryption

**Native & Platform:** Platform Channels, App Flavors / Multi-Environment Config, Deep Linking, Biometric Authentication

**Monitoring & Release:** Firebase Crashlytics, App Store Connect, Google Play Console, Release Management

**Localization:** Internationalization (intl), Multi-Language Support

**DevOps & CI/CD:** Git, GitHub, GitLab, CI/CD, CodeMagic, Shorebird, Fastlane, Agile, Jira

**Integrations:** Payment Gateway (Stripe, PayTabs), Google Maps, Push Notifications, Analytics

**Languages:** Dart, Python, Java, Swift, Kotlin, C / C++, C#, AI & ML Basics

**Design & Tools:** Figma, Adobe XD, Android Studio, VS Code, Xcode, Postman, Trello, Slack, Flutter DevTools

## EDUCATION

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### Bachelor of Computer & Information Sciences

Mansoura University, Computer Science Department — Graduated with Very Good with Honours, 2018–2022

## CERTIFICATIONS & TRAINING

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- ITI Flutter Training, 2021
- AWS Machine Learning Certificate, 2021
- HCIA AI — Huawei Certified ICT Associate in AI, 2021
- Supabase Advanced Course

## LANGUAGES

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Arabic (Native) | English (Professional)