

# MOHAMED ALMAHDY

## Mobile Applications Developer

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### PROFILE

Mobile Apps Engineer with 5 years of experience in Kotlin, Java, and Swift. Successfully created 10+ Apps in Android, iOS, and KMP, improving app stability by 40% and performance by 30%. Enhanced engagement by 25% and reduced API response time by 50%. Skilled in product thinking, identifying critical business opportunities and enhancing product strategy.

### EXPERIENCE

- Android Developer | Tawuniya11/2024 – Now | Riyadh, KSA (Remote)
- Developing the **Tawuniya Drive App**, a mobility and insurance companion app enhancing driving safety through telematics and real-time user engagement features.
  - Architected and implemented key features using **Jetpack Compose**, **Hilt DI**, and **Clean Architecture** principles.
  - Collaborated on the **Tawuniya Drive SDK**, a Kotlin Multiplatform (KMP) SDK encapsulating domain & data layers to ensure consistency, scalability, and developer productivity across shared modules.
  - Configured **CI/CD pipelines** using Codemagic for automated builds, testing, and deployment workflows.
- Mobile Application Developer | The Kupe Consultancy03/2024 – 11/2024 | Remote
- Fully developed and delivered 2 production apps from concept to Play Store release using **Kotlin Multiplatform**:
    - Ion Community App** - Residential compound community platform with event management and project showcase features, leveraging **MVI architecture** and **Compose Multiplatform**.
    - Ures** - Real estate CRM companion app enabling sales agents to manage leads, properties, and client interactions efficiently on mobile, with offline-first architecture.
  - Implemented modern Android development practices including **Jetpack Compose**, **Ktor Client**, and **Clean Architecture**.
- Mid-Level Android Developer | DTag07/2022 – 03/2024 | Cairo, Egypt
- Contributed to 2 mobile apps:
    - Whizzy** (iOS) Mobile app designed to simplify the process of renting vehicles for short rides.
    - Samoolah** (Android) Services provider app with dual distributions: customer-facing app and technician/driver app.
- Junior Software/Android Developer | Virtual Worker Now & ElMnassa Innovation07/2021 – 07/2022 | Cairo, Egypt
- Contributed to multiple mobile apps including **Pet Matrices** (iOS) and the **VirtualCoursesNow** website.

### LANGUAGES

Kotlin

Java

Swift

### FRAMEWORKS

Android

Kotlin Multiplatform

iOS

### ANDROID TOOLS

Compose

Coroutines

Retrofit

Koin & Hilt

WorkManager

Room

### IOS TOOLS

SwiftUI

UIKit

Core Data

Combine

### EDUCATION

B.S. in Computer Engineering | Al-Azhar University2017–2021 | Cairo |

- Graduation Project: **Zakerly ( E-learning Mobile App )** Grade : **Excellent**

### SKILLS & EXPERTISE

- Software Architecture:** Expert in **MVVM**, **Clean Architecture**, & **SOLID**.
- Async Programming:** Coroutines, GCD, and Rx for concurrency.
- Design Patterns:** Applying proven patterns for scalable Apps.
- Cross-Platform Development:** Expert in Kotlin Multiplatform.
- Networking & API Design:** REST, WebSockets, GraphQL, and caching.
- Database & Persistence:** Room, Core Data, and advanced caching.
- Dependency Injection:** Expertise in Dagger Hilt, Koin & DI concepts
- Testing & CI/CD:** Unit tests, UI tests, and automated pipelines.

## PROJECTS

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### Android Projects

#### Tawuniya Drive |

- A mobility and insurance companion app designed to enhance driving safety and user experience.
- **Tech Stack:** Jetpack Compose, Hilt, Coroutines, Kotlinx Serialization, Retrofit
- **CI/CD:** Configured automated build and deployment pipelines using Codemagic

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#### Samoolah |

- Services provider app with dual distributions: customer-facing app for booking services and technician app for service fulfillment.
- **Tech Stack:** MVVM, Modularization, Jetpack Compose, Retrofit, Navigation Component, Kotlin Coroutines & Flows

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#### Grainoz |

- Pet needs delivery e-commerce platform serving multiple user roles with feature-based modular architecture and Clean Architecture principles.
- **Tech Stack:** Jetpack Compose, MVVM, Koin DI, Ktor Client, Kotlin Multiplatform modules, Arrow-kt, Paging 3, Coil 3

### iOS Projects

#### Whizzy |

- Vehicle rental mobile app designed to simplify the process of renting vehicles for short rides with seamless booking experience.
- **Tech Stack:** SwiftUI, MVVM, Alamofire, Kingfisher, Combine & GCD

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#### Pet Matrices |

- Pet lifestyle application for tracking pet activities, calorie intake, health conditions, and receiving expert veterinary advice.
- **Tech Stack:** SwiftUI, MVVM, REST API, Swift GCD

### Kotlin Multiplatform Projects

#### HappyTail |

- Veterinary clinic and pet care platform with dual applications: customer app for booking services and shopping, plus driver app for service delivery.
- Built with Kotlin Multiplatform (KMP) for seamless cross-platform development across Android & iOS.
- **Tech Stack:** MVVM, Compose Multiplatform, Koin DI, Ktor, Navigation Compose, KotlinX Serialization, Coil 3, Moyasar Payment SDK, MapLibre Maps, Moko Resources

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#### Ion Community |

- Residential compound community app showcasing developer projects, events, and compound amenities for residents.
- Built with Kotlin Multiplatform (KMP) for seamless cross-platform development across Android & iOS.
- **Tech Stack:** MVI, Compose Multiplatform, Ktor, Voyager Navigation, KotlinX Serialization, KAMEL

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#### Ures |

- Real estate CRM companion app designed to help sales agents and brokers manage leads, properties, and client interactions efficiently.
- Built with Kotlin Multiplatform (KMP) for seamless cross-platform development across Android & iOS.
- **Tech Stack:** MVI, Compose Multiplatform, Ktor, KotlinX Serialization, Coil

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More Projects at my GitHub 

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