

MAHMOUD ALY

ANDROID DEVELOPER

Beni Suef, Egypt • +201148588723 • m37moud00@gmail.com

[LINKEDIN](#) [GITHUB](#)

SUMMARY

Experienced Android Developer with 5+ years of experience building scalable, user-friendly applications using **Kotlin** and **Jetpack Compose**.

Passionate about solving complex problems, exploring new technologies, and delivering secure, high-performance mobile solutions.

Strong understanding of backend development using **Ktor** and **Spring Boot**, with hands-on experience in **Flutter** for cross-platform projects.

Dedicated to writing clean, maintainable code and continuously improving app quality and user experience.

WORK EXPERIENCE

Ceramica Mayorca Co. | Android Developer jan, 2024 – Present

- Designed and developed a comprehensive ecosystem of applications for managing product displays and business operations using **Kotlin** and **Jetpack Compose**.
- Implemented an MVVM-based architecture, improving maintainability and scalability.
- Built and deployed backend APIs with **Ktor + MySQL**, ensuring smooth integration between mobile and server layers.
- Reduced application crash rates by proactively monitoring analytics and resolving issues before release.
- Developed custom UI components and optimized layouts with Jetpack Compose, enhancing engagement and performance.
- Integrated Kotlin Ktor backend services for seamless API communication.
- Delivered **Android, iOS (Compose Multiplatform)**, achieving a consistent cross-platform experience.
- Deployed backend services via Dockerized containers on Ubuntu VPS, ensuring security and scalability.

Mafateeh IT & Media Solutions - Android Developer Remote | 2023 – 2024

- Refactored legacy Android codebases, improving stability and maintainability.
- Enhanced app performance by optimizing media streaming and background services, leading to smoother playback and faster loading times.
- Improved user interface consistency and accessibility, resulting in a more intuitive experience across **three radio apps (Watar FM, Mood FM, Beat FM)**.
- Enhanced app performance by optimizing API calls and reducing memory consumption.
- Published stable releases on the Google Play Store, ensuring compliance with the latest Android SDK and policy requirements.

Freelancer - Android Developer Remote | 2020 – 2023

- Developed and delivered multiple Android applications for clients across various industries, focusing on clean architecture, high performance, and user-friendly design.
 - Built end-to-end mobile solutions, handling frontend development with Kotlin and Jetpack Compose.
 - Collaborated directly with clients to gather requirements, design UI/UX flows, and implement scalable features under tight deadlines.
 - Update legacy code in old projects and add new features.
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PROJECTS

Ceramic Mayorca

[Google Play](#) [Apple Store](#)

Descreption :

An integrated system built to showcase and manage tile products efficiently

Built **two customer apps (Android/iOS)**, a **desktop admin panel**, and a **backend system**.

- **Frontend:** Jetpack Compose Multiplatform
- **Backend:** Ktor + MySQL + Flyway + JWT Authentication
- **Deployment:** Docker + Nginx + SSL (Ubuntu VPS)

Store Management (Android App)

[Google Play](#)

Descreption :

Store Management for scan BRCode for stock items in store by camera then export report via excel sheet.

- Jetpack Compose - Room - hilt - Coroutines.

Radio Streaming Apps Suite (Watar FM, Mood FM, Beat FM)

[watar](#) [Mood](#) [Beat](#)

Descreption :

Live Arabic music and entertainment apps for Android.

- Java, MediaPlayer, Threads, Retrofit, Android Services

StoriesForKids & Admin App (Android app)

[github](#)

Descreption :

Main App: An interactive learning app for children featuring animations, sound effects, and bilingual (Arabic-English) content.

Admin App: A management panel for uploading new stories, media, and push notifications in real time.

- Kotlin, Material Design, Room Database, Firebase (Auth + Realtime DB + Messaging), Dagger Hilt, Animation Frameworks

HR system (Kotlin KMP version)

[github](#)

Descreption :

Developed a cross-platform HR management system designed to automate employee attendance and reporting workflows.

- Kotlin Multiplatform (KMP), Jetpack Compose (Desktop), SQLDelight, Decompose, Dagger2

TECHNICAL SKILLS

- **Languages:** Kotlin (primary), Java, Python, Dart, HTML
- **Frameworks & Libraries:** Jetpack Compose, Flutter, Android Jetpack Components, SQLDelight, Firebase SDK, Retrofit, Coroutines, Hilt, Koin, Dagger2
- **Architecture:** Clean Architecture, MVVM, MVI, Multi-Module
- **Backend Development:** Ktor, Spring Boot, MySQL, Flyway, Docker, Nginx
- **Backend Integration:** RESTful APIs, JSON, Firebase (Authentication, Realtime Database, Analytics), Google Cloud Services
- **UI/UX:** Jetpack Compose, Material Design, XML (legacy), View Binding
- **Tools & DevOps:** Git, Android Studio, Google Play Console, App Store Connect, Ubuntu, macOS, Docker, Gradle build customization with product flavors
- **Concepts:** OOP, SOLID, Design Patterns, Version Control, Agile Development
- **Domain Expertise:** payment integration, cloud-based services and release management

EDUCATION

Beni Suef University — Bachelor's Degree

Graduated August 2012