

Zainulabdeen Mohammed Abotiheen

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(Living in Baghdad)

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WORK EXPERIENCE

Miswag

Intern Android Engineer **September. 2024 – December**

Junior Android Engineer **December. 2024 – Present**

On-site

- Led the migration of high-complexity legacy Fragments to Jetpack Compose, implementing a reactive architecture with Kotlin Flows and StateFlow to improve UI consistency.
- Streamlined application state by decoupling monolithic ViewModels into modular, screen-specific components using MVVM-pattern event flows for navigation and UI events .
- Engineered high-performance UI components and Server-Driven UI (SDUI) blocks using LazyGrid with dynamic spans and async lazy loading to improve app responsiveness .
- Resolved critical UI rendering crashes and recycling issues by leveraging advanced Compose parameters like contentType and custom keys for efficient state management .
- Managed Legacy-to-Compose interoperability by successfully integrating bridged WebViews within AndroidViews, handling lifecycle-aware state updates and complex dependency injection .
- Collaborated with Backend and iOS teams to optimize API contracts and naming schemas, reducing redundant network requests and improving data fetching efficiency .
- Developed custom scrollable layouts and pager animations from the source level to meet precise design requirements that standard material components could not support .

Tech Stack: Kotlin, Jetpack Compose, XML, Coroutines, Kotlin Flows (StateFlow/SharedFlow), Retrofit, Room, Koin, Server-Driven UI (SDUI), WebView-Compose Interop, Firebase.

Khana

August. 2024 – November. 2024

Training Coordinator

Baghdad

- Automated course registration, finance tracking, and invoicing using Google Apps Script.
- Developed a dashboard to monitor course performance and student payment status in real time.
- Streamlined communication by automating email invoices and payment reminders.
- Coordinated logistics for multiple training courses and events; supported tens of students.
- Built meaningful connections across participants, speakers, and management.

Tech Stack: Google App Scripts

EDUCATION

American University in Iraq - Baghdad

May, 2025

Degree: Bachelor of Science, Major: Computer Science

Baghdad

- **GPA: 3.7/4.0**
- Dean's List
- Co-lead of GDSC (Google Developer Student Club): organized multiple tech events and workshops
- MC for New Student Orientation
- Organizer of Mega Tech Summit (350+ attendees from across Iraq)

Skills

- **Technical Skills:**
 - **Android Development:** Jetpack Compose (Advanced), Custom Layout Measurement, MVI/MVVM Architecture, Server-Driven UI (SDUI), ViewModel, Room, Retrofit, Koin.
 - **Reactive Programming:** Kotlin Flows (StateFlow/SharedFlow), Coroutines, Unidirectional Data Flow (UDF), Reactive UI State Management.
 - **Performance & Optimization:** UI Performance Profiling, Immutable State Management, Lifecycle-aware components.
 - **Languages & Tools:** Kotlin (Expert), Python, C, Git/GitHub, API Contract Optimization, CI/CD principles.
 - **Concepts:** Server-driven UI, Lifecycle management, Compose Locals.
- **Soft Skills:**
 - Strong problem-solving & debugging skills
 - Initiative in cross-team collaboration
 - Confident communicator and public speaker
 - Event planning & coordination
 - Ability to propose creative solutions and articulate ideas clearly