

# Muhammad Asad Bashir

Android Developer

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Islamabad, Pakistan

github.com/asadbytes

## Profile

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Kotlin-focused **Android engineer** with experience building and publishing production apps using **Jetpack Compose**, **Compose Multiplatform** (CMP), and **Kotlin Multiplatform** (KMP). Hands-on experience integrating on-device AI/ML (**MediaPipe**, **TensorFlow Lite**, Google ML Kit), Firebase, real-time chat (Stream Chat), and modern Android architecture patterns. Committed to clean, maintainable code and performance-driven, user-focused development.

## Education

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Islamabad, Pakistan    **BS Software Engineering**  
**International Islamic University**

## Professional Experience

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05/2025 – 08/2025    **Android Developer Intern**  
Rawalpindi            **Dev Sky**

11/2025 – 01/2026    **Software Engineer Apprentice**  
Islamabad              **CWare Technologies**

01/2026 – Present    **Mobile App Developer**  
Rawalpindi             **Maida Technologies**

## Courses

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**Meta Android Developer**  
Coursera

**Android Basics with Compose**  
Google Developers

## Projects

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### EyeChanger – AI Face Editing App

Built a production-ready face-editing app allowing offline (TFLite/MediaPipe) and online (API) eye color, hair, lips, tattoo & face-swap effects.

### EyeChanger KMP – Cross-Platform Face Editor

Developed shared-logic face-editing application (eye/hair/lips/tattoo/face-swap) targeting Android & iOS from single codebase.

### Code – QR Scanner & Generator with History

Built modern QR code reader/generator supporting multiple data types, history, favorites, vibration/sound settings & gesture support.

### Universal Translator – Multi-mode Language Translator

Developed full-featured translator with text, camera (live & gallery), conversation mode, history, bookmarks & floating widget.

### Deep Freezer – Device Owner App Freezer & Focus Tool

Engineered privacy & productivity utility to freeze/unfreeze apps using Device Owner privileges; includes stealth mode & app lock.

### **Fast Downloader (GetInsta) – Social Media Video Downloader**

Implemented reliable downloader for Instagram/TikTok/etc. videos via automated WebView + Android DownloadManager integration.

### **IntraVerse – Personalized Career & Learning Guidance App**

Created an educational Android app offering personalized course recommendations, career roadmaps, progress tracking & real-time chat.

### **Skills**

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Languages & Concurrency: Kotlin (Primary), Coroutines, Flow (StateFlow, SharedFlow)

Architecture & State: Clean Architecture, MVVM Unidirectional Data Flow, State Management

Networking & Persistence: Ktor Client, Retrofit, OkHttp kotlinx.serialization Room, DataStore (Preferences & Proto) Firebase (Auth, Firestore, Realtime DB, Remote Config)

Advanced Android: Device Owner / Device Admin APIs WorkManager, Foreground Services, Broadcast Receivers WebView integrations, DownloadManager

UI & Multiplatform: Jetpack Compose (Material 3, Navigation, Animations, Adaptive Layouts) Compose Multiplatform (Android + iOS shared UI) XML, View Binding

Multiplatform & Navigation: Kotlin Multiplatform (KMP) Voyager, Navigation Compose

AI / ML & Camera: MediaPipe (Face Landmarker integration) TensorFlow Lite (on-device inference) Google ML Kit CameraX

Real-Time & Monetization: Stream Chat SDK AdMob