

ROHAN IRSHAD

Flutter Developer | Mobile Software Engineer (iOS & Android)

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PROFESSIONAL SUMMARY

Results-driven **Mobile Application Engineer** with **3+ years of professional experience** delivering **30+ Flutter projects** (spanning live published commercial apps with **10,000+ active downloads** on Google Play and Apple App Store, alongside enterprise and commercial production mobile apps). Deep specialization in **reactive state management (BLoC, Provider, GetX, and Riverpod MVVM architectures)**, **low-latency native Android interop (Kotlin, MethodChannels, Accessibility & Foreground Services)**, **on-device computer vision & ML (Google ML Kit Pose Detection & Camera OCR)**, and **dual-engine app monetization (Google AdMob 7-network mediation & RevenueCat / StoreKit in-app subscriptions)**. Proven track record eliminating app crashes (achieving a **99.8% crash-free session rate**), revamping outdated UI into high-converting 60fps experiences, and bridging Flutter mobile apps with scalable backends.

TECHNICAL SKILLS

Core Technologies: Dart 3.x, Flutter SDK, Kotlin, Java, JavaScript, Python, RESTful APIs, JSON, Git / GitHub

Architecture & State: BLoC, Provider, GetX, Riverpod (MVVM & Clean Architecture), Dependency Injection, Repository Pattern, Reactive Programming

Native Android & Interop: MethodChannels, Accessibility Services, Foreground Services, BroadcastReceivers, Window Overlays, Native Permissions

AI & Computer Vision: Google ML Kit (Pose Detection, 33-Landmark Real-Time Tracking, Optical Character Recognition / OCR), Camera Hardware Streams

Monetization & IAP: Google Mobile Ads (AdMob SDK 6.x), Multi-Network Mediation (AppLovin MAX, ironSource, Unity, Meta, Liftoff, Pangle, Mintegral), RevenueCat, StoreKit, Google Play Billing

Backend & Storage: Firebase Suite (Cloud Firestore, Remote Config, Crashlytics, Cloud Messaging), Hive NoSQL, SQLite, SharedPreferences, Dio HTTP Client

UI/UX & Graphics: Pixel-Perfect Figma Conversion, Responsive Design (flutter_screenutil), Custom Painters, Interactive Waveforms, Charts (fl_chart)

PROFESSIONAL EXPERIENCE

Flutter Developer

May 2025 – Present | Punjab, Pakistan

iTechGemini

- Architect, develop, and publish **30+ Flutter mobile applications** across health-tech, generative AI, utility, audio, and e-commerce domains on Google Play and Apple App Store.
- Modernize legacy mobile codebases into fluid 60fps responsive experiences while resolving memory leaks and rendering overflows to maintain a **99.8% crash-free session rate**.
- Implement robust **BLoC, Provider, GetX, and Riverpod MVVM architectures**, reducing boilerplate by 35% and cleanly decoupling UI presentation from business services.
- Engineer native Android system bridges using **Kotlin MethodChannels**, implementing background system overlays, Accessibility event hooks, and BootReceiver triggers.
- Maximize mobile app monetization by orchestrating 7-network Google AdMob mediation alongside RevenueCat paywalls with dynamic A/B testable trial tiers.

Flutter Developer — Remote

Mar 2024 – Apr 2025 | Lahore, Pakistan

Riphah International University — Lahore • Healthcare Client Project

- Engineered a cross-platform healthcare app for patient appointments and clinic workflows using **Flutter with BLoC, Provider, and GetX (MVVM Architecture)**.
- Developed 30+ responsive screens with intuitive navigation, animated feedback, and multi-language localization (English & Urdu) with real-time RTL layout switching.
- Integrated Firebase Auth (Login, Sign up, Password Reset) alongside Cloud Firestore and offline session caching using GetStorage.

Mobile & Web Application Developer

May 2023 – Feb 2024 | Lahore, Pakistan

Corvit Systems

- Built cross-platform mobile UI prototypes and enterprise management dashboards integrating RESTful APIs and secure authentication flows.
- Collaborated with UI/UX designers to translate Figma design systems into pixel-perfect, responsive Flutter component libraries.
- Optimized app startup time by 40% through lazy dependency injection and multi-tiered image and database caching.

FEATURED PRODUCTION PROJECTS

GainTime — AI Exercise Tracker & Native App Blocker

Android & iOS

Stack: Flutter, Kotlin, Native Accessibility Service, Google ML Kit Pose Detection, Hive NoSQL, RevenueCat

- Native System Blocker:** Built a dual-engine native Android app blocker utilizing a Kotlin AccessibilityService backed by a polling ForegroundService and BootReceiver intercepting distracting apps with a full-screen WindowManager overlay.
- On-Device Computer Vision:** Integrated google_mlkit_pose_detection to track 33 body landmarks, calculating joint angles (shoulder→elbow→wrist, hip→knee→ankle) to autonomously count workout reps before unlocking apps.
- Offline Persistence & Monetization:** Implemented Hive NoSQL for workout streaks and history alongside RevenueCat subscription paywalls with timed unlock tokens.

Imagine Me — Generative AI Art & Avatar Studio (10K+ Installs)

Google Play & App Store

Stack: [Flutter](#), [GetX MVVM](#), [Google AdMob Mediation \(7 Networks\)](#), [StoreKit & Play Billing](#), [Dio REST API](#)

- **Generative AI Pipeline:** Architected an AI art creation app connecting client prompts to latent diffusion models, featuring prompt auto-expansion, photo-to-avatar fusion, and 20+ aesthetic styles.
- **Advanced Ad Mediation:** Engineered multi-network ad mediation using `google_mobile_ads` integrating AppLovin MAX, ironSource, Unity, Meta, Liftoff, Pangle, and Mintegral to maximize eCPM.
- **In-App Purchases:** Developed a high-converting Imagine PRO paywall offering weekly and annual tiers with a 3-day free trial toggle and auto-renewing receipt verification.

eTranslator — Real-Time Camera OCR & Speech Translator

Google Play & App Store

Stack: [Flutter](#), [GetX MVVM](#), [Camera OCR Vision](#), [Text-to-Speech \(TTS\)](#), [Firebase Firestore](#), [RevenueCat](#)

- **Camera OCR & Translation:** Built OCR camera scanner utilizing camera hardware access to extract and translate physical document text across 100+ global languages in real-time.
- **Two-Way Voice Dialogue:** Implemented bidirectional speech synthesis and playback (`flutter_tts`, `audioplayers`) alongside contextual grammar and spelling error detection.
- **Offline Travel Phrasebook:** Designed a zero-dependency offline phrasebook utilizing local disk caching for emergency travel scenarios without cellular connectivity.

Signalyze v2.0 — AI Document Scanner & Digital Contract Signer

Google Play Store

Stack: [Flutter](#), [Riverpod](#), [Clean Architecture](#), [Biometric Signature Canvas](#), [PDF Generation](#)

- **Legal PDF E-Signature:** Engineered a digital signature suite with high-precision touch/stylus vector drawing canvas, document edge-detection camera scanner, and dynamic PDF export.
- **State Architecture:** Structured with strict Riverpod providers and Clean Architecture domain layers, completely separating data sources, repository contracts, and presentation controllers.

Whispra AI v3.3 — AI Audio Demixer & 4-Stem Vocal Remover

Mobile Suite

Stack: [Flutter](#), [GetX MVVM](#), [Multi-Track Audio Engine](#), [24-bit Waveform Visualizer](#)

- **High-Fidelity Audio Engineering:** Developed an audio workstation capable of demixing songs into 4 isolated stems (Vocals, Drums, Bass, Instruments) with independent volume faders and live pulsing waveform visualization.

CERTIFICATIONS & SPECIALIZED TRAINING

Getting started with Flutter Development

[Google Cloud Training](#) • [Coursera](#) • [Verify: coursera.org/share/59c245...](#)

- Authorized by Google Cloud: hands-on cross-platform Flutter application architecture, widget hierarchy, and responsive UI.

Material Components for Flutter Basics

[Google Cloud Training](#) • [Coursera](#) • [Verify: coursera.org/share/984562...](#)

- Authorized by Google Cloud: deep dive into Material Design 3 UI systems, theme customization, navigation, and dynamic components.

Flutter and Dart: Developing iOS, Android, and Mobile Apps

[IBM Skills Network](#) • [Coursera](#) • [Verify: coursera.org/share/e582d8...](#)

- Comprehensive mobile specialization covering advanced Dart OOP, asynchronous streams, state management, and mobile deployment.

Build AI Agents with Agent Platform and Flutter

[Google Cloud](#) • [Coursera](#) • [Verify: coursera.org/share/d28a86...](#)

- Autonomous AI agents, Gemini API integration, LLM agent workflows, and intelligent mobile client engineering.

Professional Certification in Web & App Development

2023 – 2024

[Corvit Systems IT Training Institute](#)

EDUCATION

Bachelor of Computer Science (BCompSc) — Virtual University of Pakistan

2023 – 2027

- Core coursework: Data Structures & Algorithms, Object-Oriented Programming, Mobile App Architecture, Database Management Systems, Software Engineering Principles.

LANGUAGES

English: Fluent (Professional Working Proficiency) • **Urdu:** Native / Bilingual Proficiency • **Hindi:** Fluent