

# Syed Mohsin Raza Javed

Senior Software Engineer · iOS · Flutter · Cross-Platform

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## PROFESSIONAL SUMMARY

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Senior Software Engineer with 8+ years building and shipping production iOS and Flutter applications across healthcare, IoT, and consumer marketplaces. Currently leading the mobile engineering team at AirCod Technologies, with multiple apps live on the App Store and Google Play. Strong on Swift, SwiftUI, and Swift Concurrency on the native side; Flutter 3.x with Pigeon-typed native bridges on the cross-platform side. Comfortable owning the full delivery pipeline — mobile architecture, platform integrations, CI/CD, and performance. Recent focus on bringing modern AI into mobile products through on-device inference (Core ML, Apple Foundation Models, Gemini Nano) and LLM APIs (Anthropic Claude, OpenAI, Google Gemini), and on adopting AI-assisted engineering workflows across the team.

## PROFESSIONAL EXPERIENCE

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### AirCod Technologies (iOS & Flutter)

Lahore, Pakistan · Dec 2018 – Present

#### Senior Software Engineer · Jan 2023 – Present

- Design and ship production iOS and Flutter applications using Swift, SwiftUI, Swift Concurrency, SwiftData, Flutter 3.x, Riverpod, Bloc/Cubit, and Pigeon-typed native bridges for iOS and Android parity.
- Integrate AI into the company's mobile products — built an AI-powered customer-support assistant on the Anthropic Claude API with tool use, prompt caching, streaming responses, and Model Context Protocol (MCP) bridges exposing in-app actions (search, payments, calendar) to the model — cut average resolution time by ~58%.
- Ship on-device AI features across iOS and Android using Apple's Foundation Models framework, Core ML, and Gemini Nano on Google AI Edge — powering smart suggestions, in-app summarization, and offline content classification while keeping sensitive data on-device and eliminating cloud cost for common in-app queries.
- Reduced LLM and backend infrastructure spend by ~70% through tiered model routing (Haiku for low-complexity prompts, Sonnet for harder reasoning), Anthropic prompt caching, on-device fallback, and a REST-to-GraphQL migration that cut backend egress by 62%.
- Adopted AI-assisted engineering workflows using Claude Code for repository scaffolding, automated PR review and changelog generation via Claude API in GitHub Actions, and shared CLAUDE.md conventions — reducing PR cycle time by ~40%.
- Architect Apple platform integrations across the iOS suite — ARKit, RoomPlan, RealityKit for LiDAR-based 3D capture; Vision and VisionKit for OCR and Live Text; HealthKit and Core Bluetooth for BLE medical-device integration; App Intents, WidgetKit, CryptoKit, and Secure Enclave — packaged as reusable Swift Packages and surfaced to Flutter via Pigeon.

#### Software Engineer · Dec 2018 – Dec 2022

- Migrated the company's API layer from REST to GraphQL (Apollo iOS, graphql\_flutter), reducing data transfer by 62% and mobile latency by 66%.
- Drove company-wide adoption of SwiftUI, Swift Concurrency, and modern declarative iOS development patterns; accelerated feature delivery by ~40% and improved code maintainability across the codebase.
- Owned the cross-platform migration from UIKit to SwiftUI on iOS and native Android to Flutter, with same-codebase Flutter Web; reduced codebase size by 35% and lowered ongoing maintenance cost by 50%.
- Built end-to-end CI/CD pipelines on Fastlane and Codemagic with automated TestFlight and Play Store delivery; release cycle dropped from 4 hours to 35 minutes and eliminated nearly all deploy defects.
- Built advanced Bluetooth Low Energy (BLE) integrations for medical devices and IoT cameras — device discovery, secure pairing, characteristic read/write, real-time data streaming, and background BLE processing (MonitorHealth, Z-IOT Cam).
- Optimized iOS cold-start and runtime performance via intelligent caching, request coalescing, and image-pipeline tuning (reduced cold-start by 75%, improved retention by 27%); established Firebase Crashlytics, Sentry, and structured os.Logger observability with on-call paging — dropped MTTR from 48 hours to 6 hours.

### SDSol Technologies — iOS Developer

Lahore, Pakistan · Jan 2018 – Sep 2018

- Built and maintained iOS apps in Swift and Objective-C using MVVM with reusable, modular UI components.
- Worked closely with the design team to ship polished, accessible interfaces — improved user-satisfaction scores by 40% and reduced drop-off by 25%.
- Integrated REST APIs, Firebase, and OAuth flows (Facebook, Google, Twitter) — drove 35% growth in daily active users.

## Bingo — Junior iOS Developer

Lahore, Pakistan · Jun 2017 – Nov 2017

- Refactored legacy Objective-C modules to Swift and introduced static-analysis gates in CI, improving build-health and code-quality metrics by 25%.
- Worked closely with backend, design, and QA peers to ship features end-to-end; contributed to code reviews and sprint planning.

## CORE SKILLS

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**Languages:** Swift, Objective-C, Dart, Python (ML scripting and Core ML model conversion)

**iOS / Apple:** SwiftUI, UIKit, Swift Concurrency (async/await, actors, Sendable), Combine, Observation (@Observable), SwiftData, CoreData, UINavigationController, Swift Package Manager, Xcode Cloud, TestFlight, App Clips, Widgets, Live Activities, ARKit, RealityKit, RoomPlan, Vision, VisionKit, App Intents, SiriKit, MapKit, HealthKit, Core Bluetooth, Core Location, Core Animation, Core Motion, AVFoundation, CryptoKit, Keychain, Secure Enclave, PencilKit, StoreKit 2

**Flutter / Cross-Platform:** Flutter 3.x, Flutter Web, Dart Isolates, Riverpod, Bloc / Cubit, Provider, GetX, Platform Channels, Platform Views, Pigeon native bridges, custom widgets and animations, Hive (Flutter NoSQL), Drift, ObjectBox

**AI / ML on Mobile:** Apple Foundation Models framework, Core ML, Create ML, MLX, Gemini Nano, Google AI Edge, MediaPipe LLM Inference, TensorFlow Lite, model quantization, on-device inference

**LLM Integration:** Anthropic Claude API (tool use, prompt caching, streaming, Model Context Protocol), OpenAI, Google Gemini, Firebase Genkit, Vertex AI in Firebase, prompt engineering, retrieval-augmented generation (RAG), embeddings, vector search (sqlite-vec, ObjectBox), Claude Code and AI-assisted development workflows

**Architecture & Patterns:** MVVM, MVI, Clean Architecture, modular packages (SPM, Flutter packages), VIPER, dependency injection (Swinject, GetIt, Riverpod), feature flags, A/B testing

**Networking & Real-Time:** REST, GraphQL (Apollo iOS, graphql\_flutter), URLSession, Alamofire, Dio, WebSockets, WebRTC (audio / video), gRPC, XMPP, Google Maps SDK (polyline, polygon, live tracking, turn-by-turn navigation), OAuth 2.0 / OIDC, JWT

**Backend Services:** Firebase (Auth, Firestore, Crashlytics, Remote Config, Cloud Functions, Cloud Messaging, Analytics), Supabase, RevenueCat, AWS Amplify

**Testing & DevOps:** Swift Testing, XCTest, XCUITest, Quick / Nimble, snapshot tests, Flutter test, integration\_test, golden tests, TDD, BDD, Fastlane, Codemagic, Bitrise, GitHub Actions, Xcode Cloud, TestFlight / Play Store automation

**Observability & Security:** os.Logger, Sentry, Firebase Crashlytics, Datadog RUM, Keychain, App Transport Security, Hardened Runtime, App Sandbox, Sign in with Apple, biometric authentication, certificate pinning, Secure Enclave, HIPAA-aware data handling

**Leadership & Practice:** Mobile tech lead for a team of 6, mentoring, technical roadmapping, hiring and interviewing, architectural design reviews, structured PR-review culture, Agile / Scrum, cross-functional collaboration

## SELECTED PROJECTS

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**ZALA AI** — iOS · Flutter · AI-powered customer-support chatbot using conversational NLP for 24/7 inquiry handling, lead qualification, ticket routing, and CRM integration. [apps.apple.com/us/app/zala-ai/id6745463912](https://apps.apple.com/us/app/zala-ai/id6745463912)

**MonitorHealth** — iOS + Android · Flutter · Virtual-hospital platform connecting patients to clinicians; integrates A&D medical devices over BLE to capture vital signs (BP, weight, SpO<sub>2</sub>) and stream them to providers in near-real time with HIPAA-aware data handling. [apps.apple.com/us/app/monitorhealth/id1514180468](https://apps.apple.com/us/app/monitorhealth/id1514180468) · [play.google.com/store/apps/details?id=net.monitorhealth.live](https://play.google.com/store/apps/details?id=net.monitorhealth.live)

**AirView Xcelerate** — iOS + Android · Flutter · Low-code process-automation platform for project, asset, and task management across the full asset lifecycle, with offline-first field operations and cloud sync. [apps.apple.com/us/app/airview-xcelerate/id1489147492](https://apps.apple.com/us/app/airview-xcelerate/id1489147492) · [play.google.com/store/apps/details?id=aircod.avx\\_2](https://play.google.com/store/apps/details?id=aircod.avx_2)

**AirViewX Lite** — iOS + Android · Flutter · Lightweight companion app for the AirView Xcelerate platform, optimized for on-the-go field workers with rapid asset and task workflows. [apps.apple.com/us/app/airviewx-lite/id6742419900](https://apps.apple.com/us/app/airviewx-lite/id6742419900) · [play.google.com/store/apps/details?id=airviewx.lite.airview\\_lite](https://play.google.com/store/apps/details?id=airviewx.lite.airview_lite)

**ZALA Seeker** — iOS + Android · Flutter · On-demand home-services marketplace with verified providers, instant booking, real-time order tracking on Google Maps, and rich notification management. [apps.apple.com/us/app/zala-seeker/id6767520032](https://apps.apple.com/us/app/zala-seeker/id6767520032) · [play.google.com/store/apps/details?id=com.zala.seeker](https://play.google.com/store/apps/details?id=com.zala.seeker)

## EDUCATION & LANGUAGES

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**University of Management and Technology** — B.S. Computer Science · 2012 – 2016 · Lahore, Pakistan

**Garrison Degree College** — FSc (Pre-Engineering) · 2010 – 2012 · Lahore, Pakistan

**Languages:** Urdu (Native / Bilingual Proficiency) · English (Full Professional Proficiency)