# Qurrat Ul Ain

Flutter App Developer · Software Engineer
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LinkedIn · GitHub · Portfolio

## PROFESSIONAL SUMMARY

Flutter Mobile App Developer and Software Engineer with a Bachelor's in Software Engineering from SZABIST, Islamabad, and 2+ years of professional experience building high-performance cross-platform applications for mobile, web, and desktop. Skilled in clean architecture, full-stack integration, and delivering production-grade apps for international clients across e-commerce, logistics, security, agriculture, and education.

## PROFESSIONAL SKILLS

**Languages:** Dart, Kotlin, Swift, JavaScript, TypeScript
**Mobile App Engineering:** Flutter, Native Android (Kotlin), Native iOS (Swift), Android Studio, Xcode, Cross-Platform App Architecture
**Frameworks & Backend:** React.js, Node.js, Express.js, Firebase, Supabase, MongoDB, REST APIs, WebSockets, Redis
**State Management:** Provider, GetX, BLoC/Cubit, Riverpod
**Software Engineering:** MVVM, MVC, Clean Architecture, OOP, Design Patterns, DSA, Agile/Scrum, TDD, System Design, RBAC, JWT
**Tools & DevOps:** Git, GitHub, CI/CD, VS Code, Postman, DigitalOcean, Cloudinary
**AI Tools & Vibe Coding:** Claude Code, Cursor, GitHub Copilot, OpenAI Codex, AI-assisted development workflows
**Integrations:** Firebase Auth/Firestore/FCM, Google Maps API, Stripe, Push Notifications, SQLite, Deep Linking, Zoom/Meet/Jitsi
**Platforms:** Android, iOS, Web, Desktop

## PROFESSIONAL EXPERIENCE

### Junior Flutter App Developer | Zippy Technologies
*July 2026 – Present*
*On-site · Islamabad, Pakistan*

- Building and maintaining cross-platform Flutter applications for iOS and Android as part of a full-time product engineering team.
- Contributed to development of an AI-powered trip planning app (TripPilot AI), implementing core booking flows, dynamic itinerary generation UI, and API integration with AI backend services.
- Implementing Clean Architecture and GetX state management across feature modules to ensure scalable, testable codebases.
- Collaborating with senior engineers on code reviews, sprint planning, and delivering production-ready features within agile cycles.

### Flutter Mobile App Developer | Crawlbytes Pvt Ltd
*Jan 2025 – June 2025*
*Remote / On-site · Islamabad, Pakistan*

- Architected and shipped 10+ production-grade UI screens using Flutter widget system, responsive layouts, and custom Hero/Tween animations, zero UI regressions across iOS and Android.
- Integrated Firebase Auth (email, OTP, social login) and REST APIs for real-time data sync, cutting login latency by 35% with full error handling across all network states.
- Refactored 3 legacy codebases to Clean Architecture and MVVM, boosting app performance by 40% and reducing code duplication by 30% through a reusable UI component library.
- Implemented offline-first storage (SQLite, Shared Preferences), FCM push notifications, and native platform channels bridging Flutter with Kotlin (Android) and Swift (iOS).
- Set up CI/CD pipelines and managed App Store and Play Store release cycles, signing, versioning, and staged rollouts, across multiple production apps in Agile sprint cycles.
- Applied TDD with unit and widget testing, reducing production defects and improving release confidence across client deliverables.

### App Developer | Internship | Infinite Algos
*Sep 2024 – Dec 2024*
*Islamabad, Pakistan*

- Optimised platform-specific Flutter modules across 3 client apps, cutting average load time by 25% on both Android and iOS through targeted rendering and widget tree improvements.
- Executed end-to-end Play Store and App Store releases for 2 production apps, managing signing, versioning, and staged rollouts independently.
- Integrated 4 third-party REST APIs across client apps, payment gateways, mapping services, and notification providers, with full error handling and retry logic.
- Consumed and documented RESTful API contracts for 2 backend teams, reducing integration turnaround time and miscommunication across sprints.

## PROJECT PORTFOLIO

**Egg Hatchery Manager Agri-Tech ERP ★Live** | *Flutter, Dart, SQLite, Provider, MVVM, Local Notifications*

- Sole developer, architected and shipped cross-platform hatchery ERP to App Store and Google Play end-to-end.
- Built real-time batch tracking across full incubation cycles with precise hatch date calculation engine.
- Implemented automated local notifications for turning, candling, and temperature events, zero missed alerts in production.
- Designed offline-first SQLite storage layer ensuring full functionality with no internet connectivity.

**Live:** App Store · Play Store

**Shop App 3-in-1 Multi-Role eCommerce** | *Flutter, Dart, Firebase, Google Maps API, GetX*

- Engineered 3 role-isolated Flutter apps (Customer, Driver, Vendor) on a single unified Firebase backend.
- Built InDrive-style real-time delivery tracking for Driver App using Google Maps SDK and live location streams.
- Implemented FoodPanda-style vendor inventory and order management with push notification alerts.
- Designed role-based authentication flow ensuring zero cross-role data exposure across all 3 apps.

**Qafila Hajj & Umrah Safety Platform** | *Flutter, Dart, Firebase, Google Maps SDK, MVVM*

- Delivered reliability-first safety app solo in 1 month, engineered for high-density, low-signal crowd conditions.
- Built real-time family tracking and geo-fence distance alerts using Google Maps SDK and Firebase Firestore.
- Implemented last-known-location fallback system maintaining user safety data on full connectivity loss.
- Integrated one-tap SOS with live location sharing accessible to non-app users via shareable links. (International, Ghana/Pakistan)

**Kumasi VPN** | *Flutter, Dart, SSH, V2Ray, UDP Hysteria, REST APIs*

- Built high-performance VPN client for Ghanaian market supporting 3 protocols: SSH, V2Ray, and UDP Hysteria.
- Engineered intelligent auto-reconnect system restoring VPN tunnels on network drops without user intervention.
- Implemented real-time load-based server selection engine routing users to optimal servers dynamically.
- Optimised for low-bandwidth environments, maintaining stable throughput on degraded mobile networks. (International, Ghana)

**Medical Bazaar Nepal B2B Marketplace** | *Flutter, Dart, Firebase, Node.js, Provider*

- Developed multi-vendor B2B procurement platform digitizing Nepal's medical supply chain end-to-end.
- Built real-time vendor inventory dashboards with stock level alerts and category-based product search.
- Implemented order-to-delivery tracking pipeline with status updates at each procurement stage.
- Integrated real-time vendor-client chat for instant support, reducing order resolution time. (International, Nepal)

**LMS Xpert Solution Academy** | *React 18, Next.js, Node.js, Express.js, MongoDB, JWT*

- Delivered full-stack MERN LMS end-to-end in 20 days with JWT-secured role-based access for 3 user types.
- Integrated Zoom, Google Meet, and Jitsi for live class delivery with session scheduling and management.
- Automated generation of QR-coded student ID cards and course completion certificates on submission.
- Built fee management system with admin approval workflows and downloadable payment receipts.

**Enterprise Resource Planning (ERP) Platform** | *React.js, Node.js, Express.js, MongoDB, Mongoose, Tailwind CSS*

- Built modular ERP with inventory tracking, vendor invoicing, and workforce allocation across departments.
- Implemented automated stock alerts and multi-tenant workspace architecture for scalable client onboarding.
- Engineered cryptographically signed financial ledgers ensuring tamper-proof, audit-ready record-keeping.
- Designed role-based access control across all ERP modules with department-level permission scoping.

**B2B CRM Suite** | *React.js, Node.js, MongoDB, JWT, Socket.io*

- Built full-featured CRM with drag-and-drop Kanban pipeline for end-to-end sales workflow management.
- Implemented real-time WebSocket sync via Socket.io for live pipeline updates across concurrent users.
- Designed RBAC system with separate manager and agent permission layers and custom sales analytics dashboards.
- Integrated JWT authentication with session management and secure API access across all CRM endpoints.

## CERTIFICATIONS

**Associate Android Developer** *Jan – Apr 2024*
Google

**Google UX Design Certificate** *Jul – Aug 2025*
Google · Coursera

**Meta Android Developer Certificate** *Mar – May 2026*
Meta · Coursera

## EDUCATION

**B.S. Computer Software Engineering** *Sep 2022 – June 2026*
SZABIST, Islamabad, Pakistan

## ACHIEVEMENTS

- Sole developer on a live Agri-Tech ERP, published independently to both the Apple App Store and Google Play Store.
- Delivered 5+ international client projects across Ghana, Nepal, and Pakistan including a Hajj safety platform and B2B medical marketplace.