

HAMZA TARIQ

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Flutter / Mobile Software Engineer — BLE, IoT & AI

PROFESSIONAL SUMMARY

Flutter / Mobile Software Engineer with 3+ years of experience building production apps with BLE/IoT hardware integration and AI features. Built enterprise smart-room control systems for a Dubai-based client and Arabic/English apps for GCC markets. Shipped apps serving 30,000+ users across healthtech, fintech, e-commerce, and enterprise AV.

TECHNICAL SKILLS

Mobile: Flutter, Dart, Bloc/Cubit, GetX, Provider, go_router, Dio, Freezed, Hive, Arabic/English localization (RTL), Android, iOS

IoT & Hardware: BLE, ESP32, LoRa, MQTT, SSH2, Cisco RoomOS xAPI, QSC Q-SYS

Backend & Cloud: Firebase (Auth, Firestore, Realtime Database, Cloud Functions, FCM), Supabase, REST APIs, WebSockets, JWT, PostgreSQL

AI/ML: Google ML Kit, TensorFlow Lite, OCR, Whisper, BERT, NLP, LLM APIs; AI-assisted development (Claude Code, Codex, MCP)

Payments: Stripe, RevenueCat, In-App Purchases, PayPro, Moyasar

Testing & DevOps: Unit, widget, and integration testing, Artemis, Patrol, GitHub Actions, fastlane, Xcode Cloud, Git, Postman, Jira

Languages: Dart, Python, TypeScript/JavaScript, Kotlin, Java, SQL

PROFESSIONAL EXPERIENCE

Mobile Application Developer

Evolvix, Dubai, UAE (Contract, Hybrid)

Aug 2025 - Present

- Built "Room-OS", an iPad controller for 10 Cisco RoomOS meeting rooms across 3 floors: calls, camera tracking, per-microphone gain/mute, lighting, HVAC, and source routing over Cisco xAPI, SSH2, and QSC Q-SYS, with WebEx, Zoom, and Teams support.
- Engineered a reliability layer with priority command queues, automatic reconnection, control recovery, and standby monitoring; set up Xcode Cloud CI for iOS releases.
- Built "Grug", a Q-SYS iPad control UI with an offline English/Arabic voice companion (wake word, Whisper ASR, Piper TTS), and "DDC", a luxury-hotel room-control app.

Mobile Application Developer

TopTech EST, Lahore, Pakistan (On-site, Full-time)

June 2026 - Present

- Built 4 full-featured client apps in under 4 months using AI-assisted development (Claude Code, Codex, MCP) backed by automated tests and CI/CD.
- Created a reusable Flutter architecture base (Bloc/Cubit, go_router, Dio, Hive, Freezed, localization, integration tests) that bootstraps a new client app in 1-2 days.
- Developed an AI-driven social matching app with bilingual (English/Arabic, RTL) chat, communities, subscription in-app purchases, payment checkout, push notifications, deep links, and CI/CD to TestFlight and Google Play.
- Built a bilingual business directory with map-based listings, a professional networking platform, and a travel booking app (hotels, flights, transfers).

Software Engineer

RISETech, Islamabad, Pakistan (Part-time, Hybrid)

June 2025 - Present

- Main contributor to a subscription-based bone-health app with 30,000+ users (25,000+ App Store and 10,000+ Google Play downloads): RevenueCat billing, free trials, OTP signup, Firebase Cloud Functions, and an Angular admin panel.
- Maintain and ship releases of a BLE companion app for a portable therapy device (1,000+ Google Play downloads): battery monitoring, FCM feedback, single-device login, and Arabic/English support.
- Built a BLE wearable monitoring app streaming 50 Hz IMU, PPG, and EMG data from ESP32 sensors, with live graphs, seizure-risk detection, and caregiver alerts.
- Kept the stream reliable by limiting the BLE callback to decode-and-enqueue, running parsing, detection, gzip persistence, and Firebase uploads outside it, detecting dropped frames with 32-bit sequence numbers, and throttling UI updates to about 20 Hz.
- Built a Flutter port of a native Swift gait-analysis app with Kotlin/Swift sensor plugins, and an on-device TFLite eye-tracking recording tool.

Co-Founder / Technical Lead

Green Eats, Lahore, Pakistan (Own venture)

Nov 2023 - Present

- Co-founded and lead engineering of a homemade food delivery platform on Google Play and the App Store (1,000+ downloads) with customer, rider, and chef apps, an admin dashboard, and a website.
- Built custom, fixed, and subscription meal plans with multi-timeslot scheduling, PayPro payments, a digital wallet with refunds, real-time order tracking, and FCM notifications.

Mobile Application Developer (Freelance)

Fiverr, Remote

May 2023 - Jan 2026

- Completed 50+ Flutter and Blender projects as a Level 2 seller with a 4.8/5.0 rating, delivering cross-platform apps end to end for international clients.

Earlier: AI Development Intern, MTBC - CareCloud, Rawalpindi

March 2025

Earlier: Web Development Intern, Eziline Software House, Rawalpindi

June - August 2022

SELECTED PROJECTS

My NUST - University Utility App — *Flutter, GetX, Firebase* — [Play Store](#) — [GitHub](#)

- Built and maintain an open-source student app (GPA calculator, LMS integration, utilities) with 10,000+ Google Play downloads.

Celiach-IA - Gluten Detection App — *Flutter, ML Kit, OCR, SQLCipher, Stripe* — [App Store](#)

- Built an AI-powered gluten detection app with barcode scanning, OCR ingredient analysis with confidence scoring, and an encrypted offline-first product database with delta sync.
- Integrated JWT authentication, Stripe subscriptions with trial mode, and blur detection for scan quality.

Water Flow Monitor - IoT System — *Flutter, ESP32, LoRa, Firebase RTDB*

- Engineered a leak-detection system with an ESP32 flow sensor and LoRa network, a 24/7 background service with geofencing, automated valve control, and real-time analytics with FCM alerts.

AI Recruiter - Final Year Project — *Flutter, Python, MongoDB, LLM, BERT*

- Built a recruitment platform that parses resumes with NLP and LLMs, scores candidates with BERT and cosine similarity, and runs an AI chatbot for psychometric evaluations.

Additional Apps: Built client and personal apps across fintech (WatanPay), social (WDYT), travel (Roame), wellness (Mindful Life), AI assistant for home automation (Hexa) and IoT (Dog Alert). Showcase: [GitHub.com/hmmzatariq/Projects](https://github.com/hmmzatariq/Projects)

EDUCATION

Bachelor of Engineering in Computer Engineering

2021 - 2025

College of Electrical and Mechanical Engineering (CEME), NUST, Rawalpindi — NUST High Achievers Certificate (2022, 2023)

CERTIFICATIONS

The Complete Flutter Development Bootcamp with Dart (Udemy, 2023) — Flutter Advanced - Clean Architecture with MVVM (Udemy, 2023)