

MUHAMMAD AHMAD

Flutter Developer | Mobile Software Engineer

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PROFESSIONAL SUMMARY

Flutter Developer and Mobile Software Engineer with 2+ years of professional experience building and delivering cross-platform applications from initial development through production release. Experienced in Flutter/Dart, BLoC/Cubit and GetX state management, REST API integration, Firebase/Supabase, SQLite, payment systems, GPS/maps, and protected media and document workflows, with hands-on Android/iOS deployment ownership. Backend-capable across Node.js/Express/MongoDB and PHP, having authored mobile-facing APIs and led a four-member development team.

TECHNICAL SKILLS

Mobile: Flutter, Dart, Android, iOS, cross-platform mobile development

State Management & Architecture: BLoC, Cubit, GetX, feature-first architecture, layered architecture, repository pattern, service layer

Networking & APIs: REST APIs, Dio, HTTP, JSON, JWT, Socket.IO, API integration, API development

Backend: Node.js, Express, MongoDB, Mongoose, PHP, WordPress/WooCommerce

Cloud & Data: Firebase, Firestore, Supabase, SQLite, local persistence/offline caching

Payments: Stripe, Apple IAP/StoreKit, Square

Media & Infrastructure: VdoCipher, HLS, FFmpeg, Hetzner, PDF generation, file upload/download

Maps & Location: Google Maps, GPS tracking, real-time tracking

AI & Desktop Engineering: Tauri, Rust, Python, OpenAI, Whisper, Firestore

Deployment & Tools: Google Play, App Store Connect, Git, GitHub, CI/CD

PROFESSIONAL EXPERIENCE

Flutter Developer — Bulk Bytes

Jan 2024 – Present

- Build and deliver production Flutter applications across Android and iOS, owning architecture, state management, REST integrations, local persistence, payments, maps/location, and media and document workflows through release and post-release maintenance.
- Work across the mobile/backend boundary when required, developing mobile-facing APIs with Node.js/Express/MongoDB and PHP, integrating third-party services, and resolving production issues.

MRCP Syndrome — Medical Learning & Course Commerce Platform

- **Built MRCP Syndrome end to end in Flutter and personally managed its mobile-store releases**, implementing BLoC/Cubit architecture, REST integrations, course/enrollment workflows, and protected learning functionality across Android and iOS.
- Implemented platform-specific commerce flows using Stripe on Android and Apple In-App Purchase/StoreKit on iOS, integrating payment and purchase verification with course access and ownership workflows.
- Integrated VdoCipher-protected video delivery and PDF-based learning workflows for paid course content; currently engineering the migration of video delivery from VdoCipher toward Hetzner-hosted infrastructure.

U-Track Lite — Vehicle Tracking & Fleet Management

- **Built U-Track Lite from zero through Google Play deployment**, developing a Flutter/BLoC fleet-tracking application with Dio REST APIs, SQLite caching, Google Maps/FlutterMap, and Firebase Cloud Messaging.
- Engineered live GPS visualization and animated trip replay using custom markers, route polylines, Haversine/bearing calculations, and position interpolation, supported by adaptive polling and batched local caching.
- **Reached 1K+ Google Play downloads and improved app load time by approximately 40%** through networking, caching, and data-processing optimizations.

DYS / Diyosa — Watch, Media & Shop Application

- Built the DYS Flutter application and supporting PHP APIs end to end, integrating BLoC-managed product, video, and commerce workflows with WordPress/WooCommerce, and personally published the app to Google Play as DYS.
- **Implemented a production Square In-App Payments flow** spanning mobile checkout and backend payment processing.

Quick Invoices — Invoice & Estimate Application

- Developed and personally published a Flutter/Firebase invoicing application using Cubit/BLoC, Firebase Authentication, and Cloud Firestore, covering invoices, estimates, taxes/discounts, partial payments, and PDF generation.

SELECTED ENGINEERING PROJECTS

KAIMS University Management System — Project Lead | Flutter Developer | Mobile API Developer

- **Led a four-member development team and built the KAIMS Flutter mobile application from zero through Google Play deployment**, delivering role-based student and teacher experiences with GetX and authenticated REST APIs.
- Developed the Node.js/Express/MongoDB APIs consumed by the mobile application for student and teacher workflows, while collaborating with the broader development team on the university platform.
- Implemented JWT/Bearer session handling, real-time Socket.IO chat, course-material and document upload/download workflows, PDF functionality, and local notifications.

ClinNote AI — Medical Transcription & Clinical Reporting Software

- **Built and delivered ClinNote AI end to end**, a client-used Tauri desktop application integrating JavaScript, Rust, Python, Firestore, and OpenAI services (not a Flutter application).
- Engineered Windows system/microphone audio capture with Rust/WASAPI and a local OpenAI Whisper transcription pipeline, and integrated Firestore-based patient/clinic workflows with OpenAI-generated structured clinical reports.

EARLIER EXPERIENCE

SEO Expert & E-Commerce Executive — Techtrech

Jan 2023 – Dec 2023

- Managed on-page/off-page SEO and WordPress content optimization, and supported e-commerce store operations including product listings and WooCommerce maintenance.

EDUCATION

Bachelor of Science in Computer Science — Government College University Faisalabad

2021 – 2025

Affiliated Institute: KAIMS International Institute, Multan | GPA: 3.38 / 4.00

CERTIFICATIONS / TRAINING

Soft Skills Training Program — Pakistan Software Export Board / Ministry of IT & Telecom, 2026

Search Engine Optimization — DigiSkills.pk, Jan 2024

RECOGNITION

Performance Recognition — Bulk Bytes: recognized for professional contribution and overall performance.

LANGUAGES

Urdu — Native | English — Professional Working Proficiency