Akhlas Ahmed — Flutter Engineer

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Professional Summary

Flutter Engineer with 3 years of experience building and shipping production-grade Android, iOS, Web, and Desktop applications. Expertise in Flutter, Dart, Clean Architecture, MVVM, Riverpod, Bloc/Cubit, Firebase, REST APIs, and offline-first architectures. Proven experience delivering real-time applications, payment integrations, geolocation systems, AI-powered products, and full Play Store deployments. Strong focus on scalable architecture, performance optimization, and maintainable codebases.

Technical Skills

Flutter & Mobile: Flutter, Dart, Android, iOS, Web, Desktop, Custom Animations, Responsive Layouts, Material 3, Cupertino Design, Adaptive UI, Accessibility, Widgets Lifecycle

State Mgmt & Architecture: Riverpod, Bloc/Cubit, Provider, GetX, Clean Architecture, MVVM, SOLID Principles, OOP, Design Patterns, Async/Await, Streams

Backend, APIs & Cloud: REST APIs, JSON, HTTP, Firebase (Authentication, Firestore, Realtime Database, FCM, Crashlytics), Supabase, Appwrite, FastAPI, Python, Cloudflare Serverless (Workers, Pages, KV, Durable Objects, R2)

Local Storage & DBs: SQLite (sqflite, Drift), Isar (NoSQL), Hive, Shared Preferences, Firebase Firestore, Offline-First Architecture

Integrations: Social Login (Google, Facebook, Apple), Payment Gateways (Stripe, In-App Purchases), Push Notifications (FCM), Maps API (Geolocation), Hardware Sensors, Third-Party SDKs, Analytics, Deep Links

AI & Intelligent Systems: LLM API Integration, Prompt Engineering, Function Calling, Structured Outputs, Streaming Responses, AI Workflows, Context Management

DevOps & Engineering: Git/GitHub, CI/CD, Play Store Deployment, Performance Optimization, Unit Testing, Debugging, Code Reviews, System Design, Linux CLI

Professional Experience

ATIF Infinite Yield — **Islamabad, Pakistan**
Flutter Engineer — *09/2023 – Present*

- Designed and delivered production cross-platform apps (Android, iOS, Web, Windows) using Clean Architecture, Bloc/Cubit, and Riverpod; integrated Firebase (Firestore, Authentication, FCM, Crashlytics) and REST APIs across real-time communication, social networking, payment, analytics, and AI-powered platforms.
- Integrated third-party SDKs, social logins (Google, Firebase Auth), push notifications (FCM), and payment gateway flows; managed full Play Store release cycles including versioning, staged rollouts, and post-deployment crash monitoring via Crashlytics.
- Drove code quality through systematic code reviews, enforced SOLID principles and design patterns, implemented CI/CD pipelines, and led performance profiling and optimization across multiple concurrent products within Git/GitHub collaborative workflows.

Freelancer — **Remote**
Cross-Platform Developer — *11/2022 – Present*

- Delivered end-to-end Flutter applications with Firebase, Supabase, and REST API backends; implemented payment gateway integrations (Stripe, In-App Purchases), social logins (Google, Apple), real-time messaging, and analytics dashboards tailored to diverse client requirements.
- Applied Clean Architecture with Riverpod and Bloc/Cubit to produce maintainable, testable codebases; handled complete lifecycle from development through deployment and Play Store submission for multiple client products.
- Built AI-integrated applications leveraging LLM APIs with streaming response UI; developed FastAPI/Python microservices as backend support for Flutter applications.

Education

University of Azad Jammu & Kashmir
Bachelor of Science in Computer Science (BSCS) — *2019 – 2023*

- Built Silence, a production-quality real-time Flutter chat application with a Firebase backend, as a final year project. It was designed to elevate the traditional chat experience by offering a highly polished visual interface and optimized real-time messaging, ultimately earning recognition as the top project of the 2023 session.

Key Projects

Freelance Marketplace for Software Technology Parks

Linkwrks

Flutter (Web, Mobile) · Riverpod · Clean Architecture · Firebase (Firestore, Auth, Functions, FCM, Crashlytics, Analytics) · LLM APIs

- Engineered a specialized networking and freelance marketplace platform for Software Technology Parks (STPs) across AJK and Gilgit-Baltistan, connecting startups with local tech talent through dedicated portfolios and specialized profiles.
- Architected comprehensive project lifecycle tools encompassing job postings, proposal submissions, milestone-based contract management, real-time messaging, and topic-based job subscription notifications.
- Integrated multiple LLM APIs to power an intelligent onboarding agent and automated profile content generation; structured the backend utilizing Firebase Cloud Functions and FCM for robust delivery, monitored via Crashlytics and Analytics.

Play Store: Linkwrks on Google Play

Cross-Platform Restaurant Automation System

BiteSync

Flutter (Web, Android, Windows) · Bloc · Clean Architecture · Firebase (Firestore, Auth, FCM, Crashlytics) · Multimodal LLM APIs · ESC/POS

- Engineered a cross-platform (Android, Windows, Web) restaurant automation system that streamlines the order lifecycle, replacing paper with tablet-based table ordering and routing real-time notifications to kitchen and waiter interfaces.
- Developed an AI-powered menu digitizer to instantly convert physical menus into digital formats, and built robust features for menu, product, and employee access management.
- Integrated direct receipt generation for standard and thermal printers (ESC/POS), successfully deploying the system to a live restaurant in Spain while expanding to support customer-facing delivery apps.

Demo: megakebab.web.app

AI-Powered Adaptive Learning Platform

RapidVal

Flutter · Cloudflare Workers (Hono) · Riverpod · Drift (SQLite) · Firebase · LLM APIs

- Engineered a comprehensive AI-powered learning platform that drives rapid concept mastery through dynamic study roadmaps, generated systematic review content, and instant, highly configurable self-evaluation quizzes.
- Implemented automated daily quiz generation based on tailored user preferences, allowing for continuous assessment and structured learning path navigation.
- Architected a high-performance offline-first Flutter client using Drift (SQLite) supported by a globally distributed edge backend via Cloudflare Workers (Hono) for real-time AI streaming and synchronization.

Play Store: RapidVal on Google Play

Multi-Role Delivery Management System

DairyFresh

Flutter · Riverpod · Firebase (Firestore, RTDB, Cloud Functions, FCM) · Drift (SQLite) · OpenStreetMap · OpenRouteService · Geoapify

- Engineered a comprehensive, centralized multi-role platform (Admin, Coordinator, Rider, Customer) to fully digitize dairy supply chains and daily milk delivery workflows.
- Built tailored, role-specific interfaces: Customers can track live deliveries and view monthly consumption history; Riders receive dynamic route assignments and customer details; Coordinators manage inventory and assign riders; Admins oversee the entire ecosystem with full data access and user management capabilities.
- Implemented real-time background GPS tracking utilizing OpenStreetMap and Geoapify, enabling customers and admins to monitor rider ETA, exact live locations, and duty statuses seamlessly via Firebase Realtime Database.
- Integrated Firebase Cloud Functions and FCM to engineer an automated customer notification system, triggering dynamic SMS and email confirmation alerts based on real-time rider delivery statuses.
- Utilized OpenRouteService for automated route optimization and implemented robust local state management with offline caching via Drift (SQLite), ensuring uninterrupted delivery tracking and operations in low-connectivity zones.

Comprehensive Health & Fitness Tracker

Health Dashboard

Flutter (Android, iOS) · Provider · SQLite (sqflite) · Isar (NoSQL) · Hive · Pedometer · Syncfusion

- Built a comprehensive health tracker with 8 modules — step counter, meal logger, sleep tracker, heart rate monitor, water intake, BMI calculator, workout tracker, and menstrual cycle predictor — each visualized with interactive Syncfusion charts and gauges.
- Engineered a hybrid multi-database architecture: SQLite for time-series fitness logs, Isar (NoSQL) for meal records, and Hive for user settings — each chosen to match its data type's access pattern and performance requirements.
- Integrated hardware pedometer sensors for real-time step counting, distance, and calorie tracking with personalized daily caloric recommendations based on age, gender, activity level, and goal weight.

AI-Powered Nutrition & Diet Tracker

Diettix

Flutter · Clean Architecture · LLM APIs

- Engineered an AI-powered nutrition platform aimed at improving dietary awareness in underserved communities, analyzing users' baseline health data and specific conditions (e.g., pregnancy) to generate personalized meal plans targeting critical nutrients.
- Built an intelligent dietary assistant that processes daily food consumption logs, reasoning over actual intake data to provide real-time feedback on consumed versus required nutrients.
- Implemented comprehensive multi-profile tracking, enabling users to manage and monitor the specific nutritional needs and daily intake of their entire family.

Community-Driven Soccer Management Platform
Le City Stade
Flutter · Firebase · Real-time Chat

- Developed a comprehensive soccer management app enabling local players to create teams, discover nearby matches, and request to join games, fostering community engagement.
- Built features for real-time score tracking, post-match discussions, one-to-one chatting, "Man of the Match" voting, and detailed player profile management with full performance statistics.
- Implemented an invitation system for organizers to recruit players and a localized news feed to keep users updated on nearby scheduled matches and community events.

Other Projects

- **Silence:** A modern chat platform featuring dynamic groups, interactive circles, and a unified timeline for users to post and share thoughts. Built to deliver a smooth, highly engaging chat experience with an elegant UI design that seamlessly merges rich social interactions with fast messaging; awarded top FYP 2023. Preview
- **Finora Lists:** A powerful local-first productivity and expense tracking application. It features intuitive natural language input for fast logging and utilizes Drift (SQLite) for highly efficient, secure, and offline-capable data storage. Designed to provide users with seamless financial oversight.
- **OnTimeSalat:** A robust cross-platform Flutter application providing highly accurate Islamic prayer times and precise Qibla direction based on real-time location data. Features comprehensive prayer tracking algorithms and customizable notification alerts to help users seamlessly maintain daily routines.
- **resQ:** An advanced online nearby ambulance booking platform equipped with precise real-time emergency tracking. Architected using Flutter, robust Firebase backend services, and dynamic Google Maps integration to ensure rapid, reliable, and life-saving medical transport and dispatch logistics.
- **Social Network:** An anonymous social networking application designed for secure content sharing and fast real-time communication. Features robust privacy-focused user flows, end-to-end encrypted messaging, and custom chronological feeds to empower users with a completely safe digital environment.
- **PayToGo:** A sophisticated Flutter-based instant payment application UI emphasizing secure and seamless financial transactions. Features highly responsive layouts, beautiful animations, and modern fintech UX principles to deliver an intuitive, frictionless digital wallet experience for all users.
- **EmoVoiceSense:** A specialized Python-based web application engineered for advanced real-time emotion detection from multiple audio and visual input sources. Utilizes state-of-the-art sentiment analysis algorithms and machine learning models to accurately classify nuanced human emotional states dynamically.
- **Search AI:** A highly responsive AI-powered search platform architected with FastAPI. Seamlessly integrates external Tavily and advanced Gemini LLM APIs to generate highly intelligent, context-aware query results. Features an optimized search pipeline delivering fast, accurate, and relevant data.
- **SpendSense:** Voice-first AI agent turning speech into verified financial actions via AssemblyAI streaming. Uses a robust multi-provider LLM orchestrator with strict function-calling and rollback safety. Features a RandomForest hybrid forecasting pipeline. Stack: FastAPI, scikit-learn, PostgreSQL.