

# Abdullah Khan

Full Stack Flutter Developer

Flutter • Clean Architecture • Enterprise Mobile • IoT & AI Integration

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## Professional Summary

Results-driven Flutter Developer with **3+ years of dedicated Flutter/mobile experience** and **4+ years of overall software development**. Proven track record building scalable, enterprise-grade cross-platform applications with **Clean Architecture (MVVM)**, offline-first capabilities, RESTful API integrations, and secure authentication (OAuth2/PKCE). Experienced with state management (BLoC, Provider, Riverpod), IoT data pipelines, Kafka-based big-data systems, and AI-powered mobile platforms. Embraces modern AI-assisted development tools for rapid prototyping and production-quality delivery. *“Drive the AI — don’t be driven by it.”*

## Professional Experience

### HyperNym

Full Stack Developer

Dec 2024 – Present • Islamabad, Pakistan

- Architected and maintained enterprise Flutter applications (FleetOps / GoHyper FMS) for a UK-based fleet technology company with real-time vehicle tracking, fuel monitoring, and comprehensive reporting dashboards.
- Implemented **offline-first architecture** with socket-based live updates for reliable field operations in low-connectivity environments.
- Built and managed **IoT data collection pipelines** using Kafka and Docker for big-data processing and industrial-scale analytics.
- Applied strict **TDD practices** (unit, widget, and integration tests) and industry-level clean code standards across all deliverables.
- Collaborated with backend, QA, and product teams in an **Agile environment** to deliver high-impact features on schedule.

### AppSpot Software Solution

Software Developer — Flutter & Mobile

Jan 2023 – Sep 2024 • Peshawar, Pakistan

- Developed and shipped **cross-platform mobile applications** (Android & iOS) for global clients using Flutter, Dart, and Kotlin (Jetpack Compose).
- Implemented **MVVM Clean Architecture** with comprehensive state management (Provider, GetX, BLoC) ensuring scalable, maintainable codebases.
- Integrated RESTful APIs, WebSocket connections, **Google Maps SDK**, payment gateways (Stripe, Apple Pay, Google Pay, FastPay), and Firebase services.
- Built a Bluetooth hardware communication app (LEIS) utilizing **BLE GATT characteristics and services** for a smart wearable bracelet device.
- Delivered security hardening, data backup/redundancy strategies, and performance optimisation across all client projects.

## Key Projects

### FleetOps / GoHyper — Fleet Management System (FMS)

Flutter, Python, REST APIs, WebSocket, Docker | HyperNym Ltd, UK

- Enterprise **multi-tenant** fleet platform with real-time vehicle tracking, fuel monitoring, and live reporting; socket-based architecture ensures reliability at scale.

### LEIS App — Bluetooth Hardware Application

Flutter, BLE (GATT), Stripe, Google Pay, Apple Pay

- ▶ Hardware-integrated Flutter app for a smart wristband using BLE characteristics/services; Stripe SDK with Google Pay and Apple Pay support.

### LearnX — AI-Powered Education Platform

Flutter, GCP Vision APIs, OCR, GPT Chatbot, Firebase, Python | South Africa

- ▶ Configuration-driven, AI-enhanced mobile app integrating GCP Vision, OCR, and a custom GPT chatbot for real-time student assistance.

### Pocket Guardian — Elderly Care App

Flutter, Firebase, FCM, Cloud Functions, Google Maps API

- ▶ Caregiver app with live GPS tracking, push notifications, and Firebase backend; demonstrates Google Maps and Cloud Functions expertise.

### Mvuala — Video Sharing & Calling App

Flutter, Native Channels, Node.js APIs, WebSocket

- ▶ TikTok-style video sharing platform with integrated audio/video calling, in-app chat, and Node.js API backend for Android and iOS.

### Forest Monitoring IoT System — FYP (*Published*)

TinyML, IoT, SoC, Machine Learning, App Development

- ▶ AI-powered IoT devices using TinyML for real-time illegal logging detection; **published** in *International Journal of Innovations in Science & Technology*, UET Peshawar (May 2024).

## Technical Skills

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### Languages

Dart • Python • JavaScript • Kotlin • C / C++ • SQL

### Architecture & Patterns

Clean Architecture • MVVM • MVC • Repository Pattern • TDD

### Local Storage & Offline-First

SQLite • Hive • SharedPreferences • Sync & Conflict Resolution

### APIs & Backend

RESTful APIs • WebSocket • Firebase (Firestore, FCM, Functions) • Node.js

### IoT & Hardware

BLE / GATT • TinyML • SoC Devices • Kafka • Docker

### Flutter & Mobile

Flutter SDK • Flutter Web • Android • iOS • FVM • Native Channels

### State Management

BLoC • Provider • Riverpod • GetX

### Auth & Security

OAuth2 / PKCE • OpenID Connect • Token Auth • Firebase Auth

### Maps, Location & Cloud

Google Maps SDK • GPS Tracking • GCP Vision APIs • AWS Services

### DevOps, Testing & Tools

Git • GitHub • CI/CD • Unit / Widget / Integration Tests • Stripe / Apple Pay / Google Pay

## Education

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### Bachelor of Computer System Engineering

University of Engineering and Technology, Peshawar

Oct 2019 – Jul 2023

**CGPA: 3.56 / 4.00**

## Certifications

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### Machine Learning & Deep Learning

DeepLearning.AI • Andrew Ng (Coursera) 2023–2024

### Application Development

NAVTTC — PM Kamyab Jawan Program, Peshawar 2022

### Embedded Machine Learning

EdgeImpulse • Shawn Hymel (Coursera) 2024

### **Combatting Illegal Logging with AI-Powered IoT Devices for Forest Monitoring**

*International Journal of Innovations in Science & Technology*, UET Peshawar • May 2024

[journal.50sea.com/index.php/IJIST/article/view/792/1357](http://journal.50sea.com/index.php/IJIST/article/view/792/1357)