

MUNAWER ALI

Flutter Developer · Cross-Platform & Secure Media

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SUMMARY

Flutter developer with 4 years shipping cross-platform apps across iOS, Android, Windows and macOS. Specialised in secure video delivery — encrypted streaming, DRM-style content protection and screen-capture prevention. Migrated a commercial LMS from a legacy desktop stack to Flutter, shipped as white-label apps for education institutes. Publisher of an open-source Flutter package on pub.dev and contributor to the Flutter ecosystem.

EXPERIENCE

Flutter Developer — Solution Infotech

India (Remote) · DTH LMS Pro (videoencryptor.com) · 2024 – Present

- **Rebuilt the platform's student application from a legacy C#/Windows-only stack into a single Flutter codebase** shipping to Android, iOS, Windows and macOS — extending a desktop-bound product to mobile for the first time.
- Built the end-to-end content-protection layer — encrypted video storage with in-app decryption, preventing course files from being extracted off the device.
- Blocked screen recording and screenshots on Android, Windows and macOS using platform-level secure-window flags, closing the primary content-leak route for paid courses.
- Delivered encrypted video streaming and cloud media playback, tuning playback for smooth, stable delivery on low-bandwidth connections.
- Shipped the product as white-label builds — **21 teacher-branded apps live on Google Play (Solution Infotech)**, 12,900+ combined installs, all from a single Flutter codebase with per-client configuration and release management.
- Built MCQ testing, live classes and course management features across the platform.
- Implemented native platform channels to reach OS-level security APIs unavailable in Dart.

Freelance Flutter Developer

Remote — clients in UAE, Saudi Arabia and India · 2022 – 2024

- Delivered production apps end to end for international clients — architecture, development, store submission and maintenance.
- Built IoT water-monitoring apps with live tank-level telemetry and responsive dashboards.
- Published apps to Google Play and the App Store, handling signing, review and release.

OPEN SOURCE

- **flutter_pdf_flipbook** — published Flutter package rendering PDFs as animated flipbooks across Android, iOS, macOS, Windows and Web. **558 downloads · 14 likes · 160 pub points**, verified publisher, MIT.
- **Flutter framework contribution** — proposed the `Checkbox.markInsets` API to [flutter/packages \(material_ui\)](https://flutter/packages/material-ui); currently in design triage with the Flutter team.
- **Flutter animation samples** — 16 public repositories, **58 stars**, demonstrating complex custom-paint and physics-based UI animation. github.com/Munawer-Ali

SELECTED PROJECTS

Twiki — Dating App — 230,000+ installs · [Google Play](#)

- Built one-to-one audio and video calling with **Agora**, plus live chat over Firebase and WebSockets for low-latency messaging.
- Implemented authentication, profile matching and real-time presence; optimised list rendering and image caching for large recommendation feeds.

Fitcal — Healthy Fit Tracker — 19,000+ installs · [Google Play](#)

- Calorie-driven meal selection matching plans to user fitness goals, with offline-capable tracking and subscription delivery scheduling.

STARIAL — Stationery & Uniforms — 41,000+ installs · [Google Play](#)

- E-commerce app for school stationery and uniforms — catalogue, cart, ordering and order tracking, with REST API integration.

SKILLS

Mobile	Flutter · Dart · iOS · Android · Windows · macOS · Kotlin · Java · Swift · Platform Channels
Architecture	Clean Architecture · BLoC · GetX · Provider · MVVM
Backend & Data	REST APIs · Firebase · WebSockets · Agora (RTC) · Real-time data · Hive · SQLite · SharedPreferences
Security	Video encryption · DRM-style protection · Screen-capture prevention · Secure streaming
Delivery	Git · GitHub · Play Store & App Store release · App signing & store review

EDUCATION

BS Computer Science — in progress
University of Sindh, Jamshoro

LANGUAGES

English (B2 — Upper Intermediate)
Urdu (Native)