

Dawar Hasnain

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About Me

iOS developer focused on building apps that solve concrete human problems, not demos, spanning clinical-style vision screening, assistive communication for adults with aphasia, and data-driven tools for gig workers and language learners. Recently completed the Apple Developer Academy, deepening expertise in SwiftUI, ARKit, and on-device ML.

Work Experience

ESSOR

Co-Founder & CEO

Pakistan, Karachi

Feb 2022 – Dec 2025

- Co-founded a game development and digital graphics software company; owned technical decisions across the mobile and 3D pipeline for in-house and client projects (up to 100k downloads, \$20k in 3D project revenue).

The GameStorm Studios

Venture Lead

Pakistan, Karachi

Nov 2020 – Jan 2022

- Led a team of 15 building and shipping mobile games (up to 500k downloads), providing technical oversight on implementation choices and release timelines.

Projects

See For Me | *iOS Accessibility & Remote Visual Assistance – SwiftUI, AVFoundation, Vision, Speech, StoreKit 2*

- Built real-time video assistance pairing visually impaired users with sighted helpers for live, on-demand visual guidance.
- Implemented hands-free voice commands via Apple's Speech framework and AI-assisted scene/object/text recognition via Vision.

Oculy | *iOS Vision Screening App – SwiftUI, ARKit, AVFoundation, PDFKit, StoreKit 2*

- Solved a core bias in digital vision testing (users unconsciously moving closer) using ARKit head-position tracking to enforce consistent device distance across four clinical-style tests.
- Built PDF report generation with PDFKit so users can bring results to a professional eye exam; added StoreKit 2 in-app purchases for premium reports.

Talq+ | *AAC iPad App for Adults with Aphasia – SwiftUI, On-Device ML, AVSpeechSynthesizer*

- Built an AAC app using ARASAAC pictograms and on-device ML word/phrase prediction to reduce message composition effort for adults with aphasia.
- Shipped multilingual text-to-speech (4 languages); resolved an App Store Guideline 2.1 rejection and localized App Store listings for international release.

Haul | *iOS Delivery Earnings Tracker – SwiftUI, Combine, CloudKit, Swift Charts, App Intents*

- Built a percentile-based target engine deriving realistic daily earnings goals from a driver's own historical distribution, surfaced via Swift Charts.
- Solved overnight shifts crossing midnight by keeping shifts "active" until true end time; synced data via CloudKit with schema migrations across releases.

Sorpasso | *Italian Driving Theory Exam Prep – SwiftUI, Supabase, Apple Sign-In, AVFoundation*

- Built exam-prep on the ministry's official question bank (~716 concept clusters, 7,142 questions) with a readiness forecaster estimating exam-day preparedness from practice history.
- Closed an expat usability gap with bilingual question glosses and tap-to-translate lookup; implemented Supabase auth with Apple Sign-In and a guest flow.

Education

iOS Apple Developer Certification

Apple Developer Academy, Naples, Italy | Oct 2025 – Present

MSc in Data Science

University of Naples Federico II | Sep 2024 – Present

BSc in Computer Science

FAST NUCES, Karachi, Pakistan | 2016 – 2021

Skills

Frameworks: Swift, SwiftUI, ARKit, Combine, Core Data, CloudKit, On-Device ML, AVFoundation, Vision, Speech, StoreKit 2, Swift Charts, App Intents, PDFKit, MVVM

Other: C#, Python, Supabase, Apple Sign-In, Git

Languages

Urdu: Mother tongue

English: Listening C2, Reading B2, Writing C1, Speaking C1