

Muhammad Asad

Senior iOS Engineer. 16 apps shipped to the App Store across Screen Time, health, fintech, maps, and on-device AI.

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Lahore, Pakistan · Remote or relocation

Experience

Lead iOS Engineer · o9 Tech Oct 2025 — Present

Senior iOS Engineer Nov 2023 — Oct 2025

- Lead iOS development across a portfolio of consumer apps, owning architecture, Core Data, release pipelines, and App Store review.
- Built Screen Time and Family Controls engines across six apps, including NFC-triggered focus lockdowns and shield configuration UI.
- Ship HiiKER, a hiking maps app serving 130,000+ trails with offline tile caching and Mountain Rescue Team integrations.
- Ship Focus Bear, an ADHD productivity app with Apple Watch complications and HealthKit sync across iPhone, iPad, and Watch.
- Built Votari, blockchain election infrastructure on Bitcoin SV with on-device KYC for face matching and e-Passport NFC, and Merkle-tree ballot proofs at 100,000+ ballot scale.

Swift · SwiftUI · Objective-C · UIKit · C++ · Family Controls · MapKit · Core NFC · Bitcoin SV · CoreML · StoreKit 2

iOS Engineer · Coder Crew LLC Apr — Oct 2023

- Shipped Going Solo, a social travel app with real-time chat and location-based matching.

Swift · UIKit · Firebase · CoreLocation

iOS Engineer · Pryvate Technologies 2021 — 2023

- Maintained Pryvate Messenger, an end-to-end encrypted communications app with RSA 4096 and Post-Quantum ZRTP running in 50+ countries under HIPAA and GDPR.
- Built Officetree, a VoIP and SIP calling app with Stripe billing and Apple Pay.
- Migrated legacy Objective-C modules to Swift and maintained the companion macOS client.

Swift · Objective-C · VoIP/SIP · RSA 4096 · ZRTP · Stripe · Apple Pay

iOS Developer · Elentra Tech 2020 — 2021

- First production role. Shipped client apps end to end, from architecture and Core Data through App Store submission.

Swift · UIKit · Core Data · Firebase

Highlights

- **16 apps** shipped to the App Store for clients in the US, Ireland, UK, and Australia.
- **130,000+ trails** served through HiiKER, with Mountain Rescue Team integrations across Ireland, the UK, and the US.
- **100,000+ ballot** capacity in Votari, blockchain election infrastructure with on-device KYC.
- **Screen Time and Family Controls** engines built across six apps, including Apple-approved entitlement work.
- Built and shipped **IDVKit**, my own open-source iOS KYC SDK. On-device face matching with a local ML model and Apple Vision, plus Core NFC reading of e-Passport identity documents. Runs fully offline with no third-party service.
- Published a **243-page book** on Apple Books and contribute to **SwifterSwift**, 14.9K stars.

Skills

Languages

Swift, Objective-C, C++, SwiftUI, UIKit, SQL

Apple Frameworks

Screen Time, Family Controls, DeviceActivityMonitor, HealthKit, MapKit, Core NFC, ARKit, CoreML, Vision, AVFoundation, Core Motion, WidgetKit, Live Activities, Core Data

Payments

StoreKit 2, Apple Pay, Tap to Pay, RevenueCat, Superwall, Adapty, Stripe

Backend & AI

Supabase, Firebase, PostgreSQL, REST, OpenAI, on-device LLMs, RAG

Tooling

Claude Code, MCP integrations, Xcode Cloud, Fastlane, TestFlight, Proxyman, Instruments

Education

University of Gujrat

Bachelor of Science in Software Engineering
2015 — 2019

Interests

Digital wellbeing, hiking and trekking, rock climbing, snowboarding, science fiction & fantasy novels, astronomy and old navigation instruments

Languages

English (fluent), Urdu (native), Arabic (basic)

Selected Projects

HiiKER 4.6 ★ (4.9K)

apps.apple.com/app/id1470810597

Offline hiking maps serving 130,000+ trails with GPX import, 3D terrain, weather overlays, and Mountain Rescue Team integrations. iPhone, iPad, and Apple Watch.

Pryvate Messenger 4.4 ★ (217)

apps.apple.com/app/id914948581

End-to-end encrypted calls, messaging, and email with RSA 4096 and Post-Quantum ZRTP, running in 50+ countries under HIPAA and GDPR.

Focus Bear 4.7 ★ (90)

apps.apple.com/app/id1673296334

ADHD productivity app with habit routines, distraction blocking, HealthKit sync, and Apple Watch complications across iPhone, iPad, and Watch.

Shelly 5.0 ★ (7)

apps.apple.com/app/id6757734582

Screen time control on Family Controls and DeviceActivityMonitor. Daily limits, app shields, and weekly usage insights with a mascot-led experience.

Block NFC hardware

apps.apple.com/app/id6752846663

Physical focus device plus companion app. Tap the NFC block to instantly shield distracting apps through Screen Time shield configuration.

Plant Health on-device AI

apps.apple.com/app/id6763390612

Plant diagnosis using RAG over a local knowledge base and an on-device LLM, with Vision-based leaf analysis. Fully offline inference.

Athanify 5.0 ★ (own product)

athanify.com

Prayer companion with adhan times, AR Qibla finder, Live Activities, sleep stories, and Screen Time shields that silence distracting apps at prayer times.

Votari blockchain

apps.apple.com/app/id6748386729

Decentralized election infrastructure on Bitcoin SV. On-device KYC with face matching and e-Passport NFC, Merkle-tree ballot proofs, 100,000+ ballot scale.

Going Solo 4.5 ★ (1.8K)

apps.apple.com/app/id1671515758

Social travel platform connecting solo travelers with real-time chat, nearby discovery, and interest-based trip matching.

Peptify 4.2 ★ (20)

apps.apple.com/app/id6760272148

On-device medical tracker for peptide protocols. Dose logging, vial inventory, bloodwork scanning with Vision OCR, and body composition tracking. No cloud sync.

Officetree VoIP

apps.apple.com/app/id6444354321

Business phone system with VoIP and SIP calling, voicemail, multi-account switching, Stripe billing, and Apple Pay.

Open Source

SwifterSwift 14.9K ★

github.com/SwifterSwift/SwifterSwift

500+ native Swift extensions across iOS, macOS, tvOS, watchOS, and Linux. Contributed UIView tap gesture handling.

Kinde iOS SDK 11 ★

github.com/kinde-oss/kinde-sdk-ios

Official iOS SDK for the Kinde identity platform. Reviewed the login_hint feature pull request for auth flow pre-population.

SwiftBSV 16 ★

github.com/wtsnz/SwiftBSV

Bitcoin SV library for transaction creation, signing, and HD wallets. Fixed Swift 6 and Xcode 16 compatibility across crypto and ECDSA functions.

IDVKit my own SDK

github.com/masadchattha/IDVKit

iOS KYC SDK for identity verification. On-device face matching with a local ML model and Apple Vision, plus Core NFC reading of e-Passport documents. Fully offline, no third-party service.

Publication

iOS Development using UIKit 243 pages · Apple Books · 2023

books.apple.com/us/book/id6448717308

A complete guide to UIKit covering views, view controllers, and controls, taking readers from foundational components through advanced app-building concepts. Written and self-published.