MUHAMMAD **ASAD**

Senior iOS Developer

CONTACT

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EDUCATION

2015 - 2019
UNIVERSITY OF GUJRAT

- Bachelor of Science in Software Engineering
- CGPA: 3.21

SKILLS

- Swift, SwiftUI, UIKit, Objective-C
- Artificial Intelligence, CoreML
- RESTful APIs, GraphQL
- MVC, MVVM, Clean Architecture
- StoreKit, Apple Pay, Stripe, PayPal, In-App Purchases
- Git, Jira, Trello, Asana, CI/CD
- App Store Deployment & Release Management
- Teamwork, Time Management
- Effective Communication
- Critical Thinking, Leadership

LANGUAGES

- English (Fluent)
- Urdu (Native)
- Arabic (Basics)

PROFILE

Senior iOS Developer with 4+ years of experience designing and building high-performance iOS applications using Swift, SwiftUI, UIKit, and Objective-C. Proven track record in developing secure payment systems (Apple Pay, Stripe), blockchain, VoIP calling, productivity, social media, and navigation apps. Experienced in collaborating with cross-functional teams and leading small iOS teams.

WORK EXPERIENCE

o9 Tech
Senior iOS Developer
2023 - PRESENT

- Led end-to-end development of iOS apps, focusing on fintech and retail use cases using Swift, SwiftUI, UIKit and Objective-C.
- Integrated Tap2Pay, Apple Pay, In-App Purchase, POS, NFC, ScreenTime, Maps and Blockchain.
- Conduct regular code reviews, mentor junior developers, and enforce architectural best practices.

Coder Crew LLC
iOS Developer
2022 - 2023

- Built and shipped blockchain-powered wallet and payment and social apps using Swift and UIKit.
- Worked on a VR-powered platform for fan engagement and social interaction.
- Contributed to app performance optimization and bug fixing across multiple projects.

Elentra Tech
iOS Developer
2020 - 2022

- Developed iOS apps across social, educational, and travel categories from scratch.
- Implemented real-time chat, map-based hiking routes, and location-based earthquake alerts.
- Participated in Agile processes, wrote scalable code, and deployed updates to the App Store.

PROJECTS

Going Solo
A social networking app for solo travelers to match, chat, and build local communities.

- Added chat replies, emoji reactions, and improved user experience in real-time messaging.
- Worked on groups, trip planning, and location-based discovery features.
- Integrated premium features like travel buddy matching and social feed improvements.

HiiKER
A hiking maps app offering trail discovery, planning tools, and offline navigation for outdoor enthusiasts.

- Localized the entire app into the German language, expanding user accessibility.
- Fixed critical bugs and crashes, improving app stability and performance.
- Worked with 100,000+ global hiking trails and offline map functionality.
- Contributed to features like GPX file import/export and trail tracking.
- Enhanced map layers (OS Maps, USGS, IGN France) for premium users.

Pryvate Messenger
An ultra-secure communication app featuring encrypted messaging, voice/video calls, and burner phone capabilities.

- Implemented secure messaging and calling features using Linphone SDK for end-to-end encryption.
- Developed cross-platform voice/video calling with low data consumption for international users.
- Integrated remote data wipe functionality and anonymous number generation for enhanced privacy.
- Optimized performance to maintain encryption without packet loss across global networks.

Officetree
A business communication app providing professional calling, texting, and multi-account management.

- Developed core VoIP calling and messaging features for business communications using PlivoVoiceKit.
- Implemented multi-account support for users managing multiple businesses simultaneously.
- Ad-free user experience for professional communication needs.

Reizor
A next-gen 360° video platform revolutionizing fan-artist engagement through immersive VR experiences.

- Developed a high-performance streaming platform for 360° 8K live events and 6K recordings.
- Built interactive social features to deepen fan-artist connections beyond live performances.
- Engineered cross-border VR technology to deliver immersive at-home concert experiences.
- Optimized video processing pipelines to maintain quality at scale for global audiences.

1st-Response
A specialized audio dictation app for emergency response professionals.

- Developed a streamlined recording tool for first responders to capture field audio notes.
- Integrated secure cloud sync with the 1st-Response web portal for a seamless workflow.
- Optimized audio compression algorithms for reliable recordings in emergency scenarios.
- Designed intuitive controls for single-handed operation during critical situations.

PROJECTS

Taparoo

A modern POS system enabling seamless Tap-to-Pay and terminal transactions.

- Developed Tap-to-Pay on iPhone functionality for contactless credit/debit card payments.
- Optimized transaction flows for high-volume retail environments with sub-second processing.
- Implemented end-to-end encryption.

Cake Companion

An inventory management system for automated retail vending solutions.

- Led iOS development using SwiftUI, Swift to build a barcode-scanning inventory system.
- Designed machine-specific product allocation with real-time sync between vending devices and backend.
- Architected the scanning workflow to streamline stock replenishment for warehouse staff.

CakeBox POS

A specialized point-of-sale system for bakeries with integrated inventory management.

- Built iOS interface with Swift/SwiftUI for intuitive cake sales and inventory workflows.
- Integrated Medusa backend to synchronize real-time stock levels and payment processing.
- Developed custom reporting features for tracking best-selling products and ingredient usage.

Pay4Money

A crypto payment solution enabling QR/NFC transactions with vendor discovery.

- Developed iOS app using Swift/UIKit for secure crypto payments via QR/NFC.
- Integrated Google Maps API for real-time vendor location services.
- Engineered wallet connectivity for seamless blockchain transactions.
- Optimized NFC chip interactions for contactless retail payments.

PUBLICATIONS

iOS Development using UIKit

Published on Apple Books

- Authored a 300-page comprehensive guide covering UIKit fundamentals to advanced techniques.
- Translated personal revision materials into a structured resource with real-world examples and best practices.
- Covers modern UIKit updates, view controllers, and UI components for building production-grade apps.
- View Book ↗ https://books.apple.com/us/book/id6448717308

OPEN-SOURCE CONTRIBUTION

Kinde iOS SDK (*Authentication Platform*)

- Contributed to kinde-sdk-ios, an enterprise-grade SDK for seamless user authentication and role-based access control in iOS apps.
- Implemented login_hint support: Enhanced SDK to pass user email addresses during OAuth flows, streamlining enterprise login experiences.

SwifterSwift (*Popular Swift Utilities Library – 14K+ stars*)

- Proposed a UIView tap gesture extension to simplify interactive element development, following Swift's API design guidelines.
- Engineered memory-safe implementation using advanced iOS runtime techniques.
- Contributed to community discussions on gesture handling best practices via PR #1163.

INTERESTS AND HOBBIES

- **Strategic Games:** Play chess (self-taught) and logic puzzles to sharpen problem-solving skills.
- **Mountain Travel:** Passionate about exploring Northern Pakistan's remote valleys.