

Osama Azmat Khan

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Strategic **Senior iOS Engineer** with over **7 years of experience** delivering high-scale mobile solutions across **FinTech, IoT, and Mobility**. Expert in large-scale system modernization, including **SwiftUI migration, Combine transition, and SPM-based modularization** to reduce technical debt and improve build efficiency.

Distinguished by a strong **cross-functional mindset**, leveraging exposure to **Kotlin, Node.js, and .NET Core** to design AI-driven engineering tools and ensure seamless API integration. A leader in **Inclusive Design** and **Performance Optimization**, with a proven track record of mentoring teams and stabilizing CI/CD pipelines during high-pressure release cycles

Experience

DEC 2022 – PRESENT

Senior Software Engineer (iOS) | PayPay | Tokyo, Japan

Architectural Leadership & System Modernization

- **Modularization Strategy:** Led the end-to-end refactor of the Notification Center by migrating legacy UIKit code into a dedicated **Swift Package (SPM)** architecture using **SwiftUI** and **@MainActor ViewModels**, significantly optimizing build times and code maintainability.
- **Core Technical Migration:** Managed the organization-wide transition from **RxSwift to Combine**, aligning the codebase with modern Apple standards and reducing third-party framework dependencies.
- **Performance Engineering:** Resolved critical memory leaks and fixed long-standing flaky tests in the P2P domain to ensure CI/CD stability during major release deadlines.

Innovation & Scalability

- **AI-Driven Tooling:** Conceptualized and architected an internal performance bot utilizing **AI and Kotlin/Spring Boot** to analyze Git diffs and performance traces, automating triage and accelerating release cycles [recent work].
- **Dynamic Web Routing:** Engineered a wildcard (/*) matching system for remote-configurable allow-lists, allowing marketing and SEO updates to bypass traditional app release cycles [recent work].
- **Inclusive Design:** Spearheaded the company-wide **Accessibility VoiceOver** initiative, creating comprehensive technical guidelines adopted by both iOS and Android teams.

Product Impact & Compliance

- **Payment Ecosystems:** Implemented **Apple Pay** native bindings and **VisionKit** credit card recognition to streamline user onboarding and expand payment options.
- **Risk & Governance:** Directed the UI/UX redesign of the Account screen and led stakeholder reviews on **KYC (Know Your Customer)** status logic, mitigating financial compliance risks.
- **Growth Engineering:** Enhanced **GMV** by implementing automatic user-limit handling and launched Native-owned A/B tests for the "Nearby" discovery flow.

MAY 2021 – DEC 2022

Senior Software Engineer (iOS) | Telenor Microfinance Bank | Islamabad, Pakistan

- Led the Vertical Integrations & Acquisitions App Squad, delivering high-impact solutions to support platform scalability and business growth.
- Designed and developed multiple key features, including:
 - o MiniApp Emulator for streamlined third-party service integration.
 - o Customer Support module to enhance in-app issue resolution.
 - o Digital Onboarding flow, simplifying account creation and improving user acquisition.
 - o Email Security enhancements, reducing vulnerabilities and improving user trust.
 - o Biometric Authentication (Face ID/Touch ID) for secure and frictionless user access.
- Improved overall app architecture, focusing on modularity, performance tuning, and clean code practices.
- Conducted deep bug analysis and error handling improvements to reduce crash rates and enhance reliability.
- Wrote and maintained unit tests to ensure code stability and facilitate regression testing.
- Supported release management, ensuring timely and quality deployments in alignment with business goals.

MAY 2020 – APR 2021

IOS Developer | Cielo WiGle Inc | Islamabad, Pakistan

- Redeveloped the entire Cielo Home iOS application for an IoT ecosystem with a strong focus on scalability, modularity, and reusability using MVVM-C architecture, leveraging Enums, Inheritance, Polymorphism, and Extensions for clean and maintainable code.
- Implemented full support for a new BLE device, enabling seamless communication and integration within the smart home ecosystem.
- Led efforts to enhance user experience, identifying and resolving over 20+ UI/UX issues, improving responsiveness, stability, and usability.
- Conducted in-depth debugging and memory profiling, identifying and fixing critical memory leaks in core control features, significantly boosting app performance.
- Collaborated closely with cross-functional teams to drive R&D initiatives, evaluate new features, and establish best practices for future development and scalability.
- Engineered a custom weekday selection control with multi-select and no-select functionality to enhance scheduling capabilities for smart devices.
- Migrated socket communication to a TLS certificate-based secure communication protocol, ensuring secure and encrypted data transmission.

MAY 2019 – APR 2020

Software Engineer | EzBike (Formerly Roamer) | Islamabad, Pakistan

- Owned and managed the complete iOS application, delivering key feature enhancements and ensuring overall app quality and performance.
- Developed and deployed new features end-to-end, based on evolving business and user requirements in a fast-paced, growth-focused environment.
- Diagnosed and resolved complex issues related to core logic and user experience, improving app reliability.

and user satisfaction.

- Built a real-time socket-based driver communication system using Node.js, enabling efficient fleet management and seamless connectivity.
- Integrated MixPanel Analytics across the app, tracking key user journeys and supporting data-driven product decisions.
- Implemented deep linking functionality, connecting Facebook Ads directly to relevant in-app features, improving user acquisition and campaign effectiveness.
- Collaborated closely with product, management, and growth teams to gather requirements, prioritize features, and align development with strategic goals.

OCT 2017 – FEB 2019

Associate Software Engineer | Tarkeeb Technologies | Islamabad, Pakistan

- Played a key role in the end-to-end development of a full-stack application, contributing across backend, frontend, and mobile platforms.
- Designed the database schema and developed RESTful APIs using C# and .NET Core, ensuring scalable and efficient backend services.
- Built the admin panel using Angular, creating a responsive and user-friendly interface for internal management and operations.
- Contributed to the iOS application development using Swift and Xcode, supporting seamless integration with backend services.
- Demonstrated a strong ability to quickly learn and adapt to new technologies, taking ownership of cross-functional tasks and delivering quality results across the stack.
- Collaborated with team members across disciplines to deliver a cohesive and production-ready solution.

Skills

Languages & Frameworks: Swift, Objective-C, SwiftUI, UIKit, RxSwift, Combine

Architecture Patterns: MVVM, VIPER, MVC, MVVM-C

iOS Development: Core Data, Core Location, Core Bluetooth, VisionKit, Apple Pay Integration, Biometric Authentication, Deep Linking

Testing & Quality: Test-Driven Development (TDD), Unit Testing, Accessibility (VoiceOver), Performance Optimization

Tools & Platforms: Xcode, Git, Mixpanel, Firebase, REST APIs

Cross-functional Experience: Node.js, .NET Core, Socket Programming, TLS Secure Communication

Education

AUG 2014 – JAN 2019

Bachelor of Science in Computer Science | Comsats University | Islamabad, Pakistan