

PRAKASH EPPALA

IOS TECHNICAL LEAD | MOBILE ARCHITECT

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SUMMARY

iOS Technical Lead with 11+ years specializing in BLE-connected healthcare apps and reusable Swift frameworks. Deep expertise in Swift, SwiftUI, UIKit, and clean/modular architecture (MVVM, VIPER). Proven at leading 4-6 engineer teams, driving TDD (85%+ coverage), and owning full App Store release cycles across Healthcare IoT, Aviation, and Enterprise domains.

EDUCATION

B.Tech – Computer Science & Engineering

CVR College of Engineering, Hyderabad
2014

EXPERTISE

Languages & UI

Swift, Objective-C, iOS SDK, SwiftUI, UIKit, Xcode, Combine, Async/Await, Swift Concurrency

Architecture

MVC, MVVM, VIPER, Clean Architecture, Modular Architecture, Protocol-Oriented Programming (POP), Dependency Injection, Coordinator Pattern

APIs & Connectivity

RESTful APIs, GraphQL, WebSockets, Bluetooth Low Energy (BLE), CoreBluetooth, MQTT, Push Notifications (APNs)

Performance & Security

Memory Management (ARC), Performance Optimization, Instruments Profiling, App Security, Keychain Services

Data & Persistence

Core Data, SQLite, Codable, HealthKit, UserDefaults

Cloud, AI & Monitoring

Firebase (Firestore, Analytics, Crashlytics, Remote Config), Datadog, AI/LLM Integration, ChatGPT API, CoreML

Testing, DevOps & Process

TDD, XCTest, XCUITest, 85%+ Coverage, SPM, CocoaPods, Fastlane, TestFlight, App Store Deployment & Review, Git, GitHub, CI/CD, Agile, Scrum

WORK EXPERIENCE

iOS Technical Lead

Sep 2025 - June 2026

Innominds Software

Continuous Glucose Monitoring (CGM) PlaVorm · Healthcare IoT / BLE

- Designed, developed, and maintained a scalable, large-scale CGM healthcare iOS app, integrating BLE medical devices via CoreBluetooth and defining clean module boundaries and data flow.
- Designed a robust BLE communication layer that improved connection reliability by 40% and cut device-sync failures in real-world clinical environments.
- Built real-time cloud sync with Firebase Firestore for seamless multi-device access and offline-first consistency.
- Integrated AI-driven health insights and an LLM-powered in-app chatbot (ChatGPT API), boosting engagement and reducing support tickets.
- Led and mentored 6 iOS engineers; instituted TDD and code-review standards, ensuring clean, maintainable code and 85%+ automated coverage (XCTest/XCUITest).
- Troubleshoot and resolved performance bottlenecks via Instruments profiling and memory-leak audits; improved memory management and crash-free rate through Crashlytics and Datadog monitoring.
- Owned the full App Store deployment and review pipeline: versioning, TestFlight beta, production release, and hotfix strategy.

Specialist I - Software Engineering

Oct 2023 - Sep 2025

UST

Private Aviation Booking & Fleet Management PlaVorm

- Built a high-traffic private aviation iOS platform in Swift using server-driven UI for dynamic screen composition without App Store updates.
- Integrated GraphQL APIs to remove data over-fetching, reducing response payload size by 30%.
- Implemented reusable modular feature components on Clean Architecture, improving scalability, testability, and onboarding time.
- Collaborated with cross-functional product, design, and backend teams to define and deliver features end-to-end in Agile/Scrum, writing clean, maintainable, testable code (XCTest).

Senior Technical Associate - iOS

Jan 2022 - Oct 2023

Evoke Technologies

- Established code-review processes, coding standards, and architecture guidelines that reduced review cycle times.
- Developed a cross-platform mobile application for Radwell UK using Flutter, delivering a seamless experience on both Android and iOS. Built responsive user interfaces, integrated REST APIs, and implemented key business features to improve usability and performance. Worked closely with the project team to ensure timely delivery while following clean architecture and Flutter best practices. Also handled testing, debugging, and maintenance to ensure a stable and reliable application.
- Led a team of 4 iOS developers, delivering critical features on schedule via pair programming and iterative design.
- Refactored a legacy Objective-C codebase to Swift with protocol-based abstractions and modular design, cutting technical debt.
- Troubleshoot and resolved performance bottlenecks through Instruments profiling, lazy loading, and GCD/OperationQueue threading, with a focus on memory management.
- Managed the full App Store lifecycle: provisioning, code signing, release notes, and staged rollouts.

Mobile Application Developer - iOS

Aug 2014 - Dec 2021

CommScope

- Developed and maintained scalable enterprise-grade native iOS apps in Swift and Objective-C using iOS SDK, UIKit, and Xcode for thousands of users over 7+ years, applying ARC memory management and app-security best practices.
- Developed Pick and Pack and Bill of Lading (BoL) applications using Objective-C for iOS.
- Integrated BLE barcode scanners, including Zebra and Socket Mobile devices, to enable efficient inventory and warehouse operations.
- Implemented peer-to-peer communication between iPad and iPod touch devices for seamless data exchange during Pick and Pack workflows.
- Designed and optimized reliable offline synchronization and real-time device connectivity to improve order fulfillment efficiency.
- Collaborated with backend and QA teams to deliver stable, high-performance enterprise warehouse management applications.
- Integrated RESTful APIs with robust Codable parsing, input validation, and multi-layer error handling, reducing network-related crashes.
- Implemented Firebase Analytics and Crashlytics with production dashboards that cut issue-resolution time.
- Built comprehensive unit and UI testing strategies (XCTest/XCUITest) to reduce regression risk.
- Integrated APNs push notifications, deep linking, and third-party SDKs via CocoaPods and SPM.

DOMAINS

Healthcare IoT & BLE · Private Aviation · Enterprise Mobile

OPEN TO

iOS Technical Lead · Senior iOS Engineer · Staff iOS Engineer · Mobile Architect

WORK AUTHORIZATION

India — open to remote / global opportunities

STRENGTHS

Team leadership & mentoring (4-6 engineers)

Architecture ownership & technical reviews

Full App Store release management

Reusable framework / SPM package design

SELECTED HIGHLIGHTS

CGM Healthcare Platform — Innominds

iOS Technical Lead · 2025 - Present

Led architecture and delivery of a BLE-connected continuous glucose monitoring app with real-time Firestore sync and an LLM-powered support chatbot.

Stack: Swift, SwiftUI, CoreBluetooth, Firebase Firestore, Combine, Datadog, ChatGPT API

Private Aviation Booking Platform — UST

Senior iOS Engineer · 2023 - 2025

Built a server-driven-UI iOS booking and fleet-management platform on Clean Architecture with GraphQL-optimized networking.

Stack: Swift, Clean Architecture, GraphQL, Server-Driven UI, XCTest

Enterprise Networking Apps — CommScope

iOS Developer · 2014 - 2021

Delivered native iOS apps serving thousands of enterprise users with REST integration, APNs, deep linking, and Firebase Analytics/Crashlytics monitoring.

Stack: Swift, Objective-C, REST, Codable, Firebase, CocoaPods, SPM

SecureVault — Policy-Driven Secure Storage SDK for iOS

Author · Swift Package & CocoaPod · github.com/prakash-eppala/SecureVault

Secure storage SDK for iOS: apps declare how sensitive data is; SecureVault picks where and how to store it.

- Routes data to the Keychain, encrypted files or encrypted SQLite, failing closed if the policy can't be met.
- Binds keys to Secure Enclave and data-protection classes, with biometric gating and ECIES on CryptoKit.
- Crash-safe key rotation, migration and recovery, with tamper detection on encrypted data and files.
- One module for Swift async/await, Objective-C and SwiftUI (@SecureStorage, BiometricGate).
- Built-in security report, in-memory Keychain for tests, Swift 6 concurrency, zero dependencies.

Tech Stack

Language & UI: Swift 6, Swift Concurrency, Objective-C interop, SwiftUI

Security: CryptoKit, Secure Enclave, Keychain Services, LocalAuthentication

Data & Tooling: SQLite, Swift Testing, SPM, CocoaPods

Vive Move — Fitness & Nutrition Tracking App

Creator · 2026 - Present · apps.apple.com/in/app/vive-move/id6800129617

A privacy-first fitness and nutrition companion that puts calories, weight and workouts in one place. Users set personal goals, log meals, track weight and daily steps, record GPS workouts, and follow their progress with charts and reminders. Solo-built end to end and published on the App Store.

- Flutter iOS/Android app with Riverpod, Apple Health / Health Connect sync and live GPS route tracking.
- Food logging on a 1,000-item Indian nutrition catalog, plus goals, weight, routines and progress charts.
- Node.js auth gateway issuing 15-min JWTs with hashed, rotating refresh tokens and replay detection.
- Google, Apple and phone OTP sign-in, database-driven RBAC, rate limiting and 36 Jest test suites.
- React + TypeScript admin console for users, content, analytics and push; CI/CD to Railway.

Tech Stack

Mobile: Flutter, Dart, Riverpod, Dio, HealthKit, Health Connect, Firebase

Backend: Node.js, Express, PostgreSQL, JWT, Jest, Supertest

Web & Infra: React, TypeScript, Docker, Railway

CAREER SNAPSHOT

- 11+ years of native iOS development; 7+ years at enterprise scale.
- Led cross-functional teams of up to 6 iOS engineers across Agile delivery.
- Drove TDD adoption to 85%+ automated test coverage.
- Owned end-to-end App Store release pipelines across multiple products.