

BALAJI ROYAL

iOS ENGINEER



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LinkedIn



GitHub

Drive iOS product development and SDK engineering through scalable UI architecture, performance optimization, reusable components, and robust mobile solutions across Fintech, SaaS, and Technology environments.

Education



2022

B.Tech., Computer Science & Engineering

Kalasalingam University



Core Competencies

iOS Application Development

iOS SDK & Framework Development

Swift, UIKit & SwiftUI Development

Reusable & Configuration-Driven UI Engineering

Mobile UI Architecture & Dynamic UI Rendering

MVVM, Coordinator Pattern & Modular Architecture

API Integration & KMP Data Layer Integration

Performance Optimization & Scalability

Production Support & SDK Integration



Technical Skills

Languages: Swift, Kotlin (Basic)

iOS & UI: UIKit, SwiftUI, iOS

Application Development, Dynamic UI Rendering, Reusable UI Components

Architecture: MVVM, Coordinator Pattern, Modular Architecture

Concurrency & Networking: Swift Concurrency, async/await, Grand Central Dispatch, REST APIs, JSON

SDK & Integration: iOS SDK Development, Framework Development, KMP-based Data Layer, PubSub SDK, Swift Package Manager, CocoaPods

Performance & Debugging:

Performance Optimization, Memory & Resource Handling, Crashlytics, Debugging, Production Support

Development & Version Control:

Xcode, Git, Code Reviews

Profile Summary

- Driving iOS product development with over 4 years of experience, currently working as Senior Software Engineer – iOS at Upstox, delivering scalable discovery & trading experiences.
- Engineered reusable, configuration-driven mobile components and complex UI experiences using Swift, UIKit, SwiftUI, MVVM, Coordinator Pattern, and modular architecture.
- Owned end-to-end development of Zoho's Instant Messaging iOS SDK, including feature development, design, QA coordination, integration support, and implementation of a KMP-based data layer for API interactions.
- Applied API-driven UI, Swift Concurrency, REST APIs, and dynamic rendering to build maintainable and responsive iOS solutions across product and enterprise environments.
- Strengthened SDK adoption and production delivery through PubSub integration, OGG/MPEG playback support, performance optimization, production issue resolution, and technical guidance across live integrations.



Work Experience

Feb'26 – Aug'26 | Senior Software Engineer - iOS, Contractor through Recro | UPSTOX, Bangalore, India

- Migrated 30 of 70 discovery and trading widgets to a new architecture, applying Coordinator-based navigation and UIKit–SwiftUI interoperability.
- Optimized widget scalability & app performance by implementing preloading & on-demand loading to render hundreds of widgets smoothly without overloading initial app load.
- Isolated widget-level changes through the new architecture, enabling independent modifications without impacting other widgets and improving maintainability.
- Delivered 4 production features, including Expiry View and Quick Access Stocks, with responsive layouts and reusable widget structures for trading workflows.
- Enhanced feed-driven list performance through scoped state updates, targeted refreshes, and multi-level rendering optimizations to reduce lag.
- Supported time-sensitive Expiry View functionality designed for specific trading days, contributing to a revenue-generating trading experience.
- Coordinated feature delivery across product, design, backend, and QA teams to ensure smooth implementation and production readiness.

July'22 – Feb'26 | Member Technical Staff – iOS | Zoho Corporation, Chennai, India

- Owned end-to-end development of the Instant Messaging iOS SDK, covering feature development, design, QA, backend coordination, integration support, and production issue resolution; completed 5 Zoho product integrations while supporting 2 more.
- Engineered 6 reusable messaging UI areas, API-configured guided conversations supporting 30+ bot-message layouts, & 5 AI Insights features and 2 reusable ticket-filter views using configuration-driven, reusable UIKit components to minimize repeated screen-level implementation.
- Optimized long-conversation responsiveness through efficient cell reuse, targeted UI updates, controlled state changes, deferred media loading, & broader UI performance tuning.
- Integrated KMP-based data layer, PubSub SDK, OGG/MPEG playback, and reusable audio functionality; implemented KMP/Kotlin features and integrated them with the iOS SDK.
- Guided partner engineers on SDK adoption, performed code reviews, collaborated across development/backend/QA teams, & diagnosed production issues using Crashlytics across 5 live integrations.



Internship

Oct'21 – June'22 | iOS Engineering Intern | Zoho Corporation, Chennai, India

- Built 4 Swift/UIKit modules for a railway reservation application, covering booking, profile management, passenger master lists, and map-based navigation.



Personal Details

Address: Andhra Pradesh, 516355 | Date of Birth : 07th November, 2000 | Languages Known: English, Telugu