

PROFESSIONAL SUMMARY

Staff iOS Engineer with 9+ years architecting high-impact mobile solutions used by millions across FinTech, Banking, Travel, and Web3. Expertise in Swift, SwiftUI, Clean Architecture, payment systems, analytics, and performance optimization. Led engineering teams, mentored 15+ engineers, and established technical best practices. Skilled with AI/LLM integration (Claude, ChatGPT, MCP protocols), shipping 10+ production apps and managing \$2M+ projects.

TECHNICAL EXPERTISE

iOS Architecture & Design:	SwiftUI, UIKit, Clean Architecture, MVVM, SOLID Principles, Protocol-Oriented Programming, Modular Architecture, Design Systems, Reusable Frameworks.
Mobile Platform Engineering:	Swift 3/4/5/6, Objective-C, Cocoa Touch, Auto Layout, Swift Package Manager, CocoaPods, State-Driven Navigation, Deep Linking, Universal Links.
Concurrency & Performance:	Swift Concurrency (Async/Await), Combine, GCD, Memory Optimization, Crash Reduction, Instruments Profiling, Performance Tuning, Application Stability.
Networking & Integration:	URLSession, REST APIs, GraphQL, Socket Programming, API Design, Caching, Retry Mechanisms, Secure Data Exchange.
FinTech & Payments:	Apple Pay, Stripe, Plaid, Coinbase, WalletConnect, UPI, PayPal, Credit Card Processing, 3D Secure & Digital Assets.
Security & Authentication:	Encryption, Secure Storage, Authentication Flows, OTP Verification, Universal Links, Deep Linking, Payment Security, Mobile Security Best Practices.
Analytics & Observability:	Firebase Analytics, Adobe Analytics, Insider SDK, Crash Monitoring, User Analytics, Performance Monitoring, Event Tracking, Operational Insights.
Testing & Quality Engineering:	Unit Testing, TDD, XCTest, Debugging, Crash Analysis, Code Quality, Technical Debt Reduction, Release Readiness.
Cloud, CI/CD & DevOps:	CI/CD Pipelines, Git, Build Automation, Release Management, Feature Flags, Remote Configuration, Continuous Delivery.
Product Domains:	FinTech, Banking, Digital Payments, Web3/Crypto, Travel & Booking Platforms, Donation Platforms, Enterprise Applications.
Mobile Engineering Leadership:	Technical Leadership, Architecture Reviews, Code Reviews, Mentorship, Agile/Scrum, Stakeholder Management, Cross-Functional Collaboration, End-to-End Product Delivery.
AI & Developer Productivity:	OpenAI Codex, ChatGPT, Claude, Cursor AI, GitHub Copilot, Gemini, AI-assisted Development, Code Generation, Refactoring, Unit Test Generation, Documentation, Debugging.

TECHNICAL EXPERIENCE

Principal Software Engineer & iOS Lead | BeneFi Global Aug 2024 – Present

BeneFi is a global online donation platform headquartered in the USA. The company designs and operates a unified digital giving platform that enables donors to contribute through Fiat (cash), Stock, and Crypto donations, while seamlessly connecting individuals with charities, nonprofits, and charitable trusts worldwide.

- Owned the end-to-end iOS architecture for Altrunova global donation platform using Swift 6, SwiftUI, UIKit, and Combine, defining the technical roadmap, modular architecture, engineering standards, and scalable platform foundations supporting Fiat, Stock, Crypto, and recurring donation ecosystems.
- Established engineering standards and platform architecture by introducing Clean Architecture, SOLID principles, MVVM, Protocol-Oriented Programming, reusable Swift Package Manager (SPM) modules, and shared design systems, significantly improving maintainability, testability, development velocity, and long-term platform scalability.
- Architected complex mobile platforms and user journeys, including authentication, onboarding, identity verification (IDV), deep linking, state-driven navigation, secure networking infrastructure (URLSession), async/await concurrency, API abstractions, caching, retry strategies, token lifecycle management, feature flags, remote configuration, and observability across the application.
- Designed and delivered secure FinTech and Web3 platform capabilities, integrating Apple Pay, Stripe, Plaid, Coinbase, WalletConnect, blockchain-enabled self-custody wallets, digital asset transactions, and extensible payment architecture while ensuring security, compliance, scalability, and future platform extensibility. Utilized Claude Code for intelligent code analysis, security pattern detection, and architecture optimization across payment and blockchain modules.
- Provided technical leadership across the engineering organization by leading architecture reviews, technical design discussions, code reviews, performance optimization using Instruments (Memory, CPU & I/O), mentoring engineers, and collaborating with Product, Design, Backend, QA, and leadership teams to drive technical strategy and successful product delivery.
- Drove platform reliability and engineering excellence by implementing analytics, observability, crash monitoring, performance optimization, and reusable engineering practices, delivering stable, scalable, data-driven mobile experiences that accelerated feature delivery, improved application quality, and enhanced user engagement.

SDE III & iOS Lead | Cleartrip Pvt. Ltd. *Feb 2024 – Jun 2024*

Reason for Change: Entity separate from Cleartrip, Flipkart

- ◊ Led the iOS architecture, system design, and technical roadmap for Cleartrip Middle East and Flyin applications using Swift 5.9, UIKit (Cocoa Touch), MVVM, and SOLID, driving scalable, modular, and production-ready solutions while partnering with engineering leadership on technical strategy and release planning. Utilized ChatGPT for rapid prototyping, technical documentation, and architecture decision analysis.
- ◊ Improved platform stability and engineering quality by reducing application crashes by 15%, eliminating critical memory leaks, optimizing API integrations, refactoring legacy modules, and reducing technical debt to strengthen long-term maintainability and release confidence. Leveraged ChatGPT for crash analysis, debugging patterns, and optimization recommendations.
- ◊ Architected and delivered mission-critical travel capabilities, including booking flows, deep linking, GraphQL integration, analytics, operational reporting, baggage & passenger insurance, and secure payment workflows using Apple Pay, Credit Cards, 3D Secure, encryption, and secure storage, improving user engagement, conversion, and transaction reliability.
- ◊ Owned technical delivery from architecture through production, leading architecture reviews, code reviews, engineering standards, mentoring engineers, and cross-functional collaboration with Product, Backend, QA, Design, Security, and business stakeholders to ensure production readiness, successful market launches, and alignment with business objectives.
- ◊ Built reusable platform components and internal frameworks, improving development velocity, application consistency, performance, and release quality while enabling faster feature delivery across both high-traffic travel applications.

iOS Consultant | Emirates National Bank of Dubai (Via Spare IT) *Aug 2023 – Feb 2024*

Reason for Change: Contract completed

- ◊ Developed scalable iOS banking modules for the ENBDX platform using Swift 5, Cocoa Touch, and reusable private frameworks, improving code quality and maintainability
- ◊ Integrated Insider SDK for rich push notifications, delivering personalized transaction updates, feature announcements, and customer engagement campaigns.
- ◊ Implemented Adobe Analytics across the core platform to track user journeys, funnel drop-offs, feature adoption, conversion metrics, and product usage insights.
- ◊ Designed reusable private libraries for networking, analytics, and shared business logic while implementing multilingual support with English and Arabic (RTL) localization.
- ◊ Enhanced the banking experience through Core Animation, interactive UI, performance optimization, crash reduction, and continuous feature enhancements for a stable production application.

Senior iOS Developer | Paytm Payments Bank Limited *Jan 2022 – Aug 2023*

Reason for Change: Leave due to reduce team size.

- ◊ Designed and delivered the Add Money module, improving payment workflows and transaction reliability.
- ◊ Engineered secure Wallet features, enhancing digital payment and account management experiences.
- ◊ Architected and implemented **Rupay Credit Card UPI** onboarding and payment integration within the UPI ecosystem.
- ◊ Developed Aadhaar OTP-based UPI MPIN setup, ensuring secure authentication and regulatory compliance.
- ◊ Applied Unit Testing, TDD, and clean code practices to improve application quality and maintainability.
- ◊ Leveraged the Backbase Mobile SDK to build scalable, enterprise-grade digital banking solutions.

Senior iOS Developer | Birlasoft Limited *Feb 2021 – Jan 2022*

Reason for Change: Leave due to Night shift

- ◊ Developed and enhanced iOS modules using Swift 5, Cocoa Touch, and Objective-C, including refactoring private Cocoa Pods to improve maintainability and code quality.
- ◊ Designed and implemented an offline peer-to-peer synchronization system where crew devices connected to an onboard Wi-Fi router to share itinerary, order, and payment updates in real time without internet connectivity.
- ◊ Built key airline features including meal collection, voucher scanning, order correction workflows, and MileagePlus payments with seamless online and offline support for flight attendants.
- ◊ Optimized application performance through architecture improvements and code refactoring, reducing technical debt while improving stability and responsiveness.
- ◊ Collaborated closely with Product, Backend, and QA teams to deliver reliable end-to-end features and ensure production readiness.
- ◊ Improved cabin crew efficiency by ~20% through automated in-flight ordering, payment processing, and synchronized offline data sharing across connected devices.

iOS Developer | Aeonic Edge Pvt Ltd *Jun 2019 – Jan 2021*

Reason for Change: Shut down during COVID

- ◊ Designed and developed iOS applications from scratch (Dmystifi and School ERP) using Swift 5, Cocoa Touch, Auto Layout, SQLite, and Objective-C maintenance.
- ◊ Built the Dmystifi online learning platform with live and recorded classes, video playback, learning progress tracking, and SQLite-based offline content storage.
- ◊ Implemented student learning validation to ensure lessons were completed sequentially, preventing users from skipping ahead while tracking total watch time and course completion.
- ◊ Developed a real-time school bus tracking system using Core Location, Apple Maps, and custom route animations, enabling parents to monitor bus locations, receive ETA updates, and get push notifications when the bus approached their pickup stop or reached its destination, improving child safety.

- ◇ Integrated multiple payment gateways, Apple QR code, interactive charts, and custom animations to enhance user experience and application functionality.
- ◇ Optimized local data persistence using SQLite for offline access, synchronization, and improved application responsiveness.

iOS Developer | Prime-lite technology pvt. Ltd *May 2017 – May 2019*

Reason for Change: Shut down during COVID

- ◇ Developed and published multiple iOS applications (Openkart, Aiwa Top-up, LimeT, Mobilio) for the UAE & Oman markets, delivering large-scale e-commerce, recharge, and fintech solutions like Amazon and Flipkart.
- ◇ Designed and developed a next-generation billing system for Gulf City, integrating (Bluetooth) BLE-based POS printing to generate invoices directly from iOS devices, improving checkout speed and operational efficiency.
- ◇ Implemented multilingual support (Arabic/English), real-time socket communication, and rich push notifications with image, video, and audio attachments to enhance user engagement.
- ◇ Built secure payment, mobile recharge, and money transfer features, including Apple QR code integration for seamless and secure transactions.
- ◇ Developed VoIP calling applications with custom communication libraries, dialer interfaces, OTP-based authentication, contact management, and comprehensive feature testing for reliable voice communication.

EXTERNAL PROJECT

TRADEDOG: TradeDog is an institutional grade financial services firm structuring products using and putting resources into digital assets and aiding the new startups, like us to grow exponentially. We are pleased with the straightforwardness and the reporting model of TradeDog and the foundation that upholds the capacity for any asset, in any asset class, to turn into a digital product.

- ◇ Design UI using storyboard and auto layout.
- ◇ Rest API calling for research repost on Digital currency.
- ◇ Using Socket programming for live price and chat.
- ◇ Graphical representation on diagram with live market.

EDUCATION

Master of Business Administration in IT (MBA IT), Department of Business Administration, Sikkim Manipal University | 2020

Master of Computer Applications (MCA), Department of Computer Science, GGSIPU University | 2017

Bachelor of Computer Applications (BCA), Department of Computer Science, Sikkim Manipal University | 2014