

SRISHTI ROY CHOUDHURY

Lead Mobile Developer

PROFESSIONAL SUMMARY

Seasoned Mobile Developer with over 11 years of end-to-end mobile application development and delivery experience across Android, iOS, and cross-platform solutions. Strong expertise in **data structures**, **algorithms**, and **object-oriented programming (OOP/OOD)**, combined with deep experience applying **software design patterns** (MVVM, MVP, Clean Architecture, MVI) to large-scale mobile solutions.

Hands-on experience with:

- **iOS Frameworks:** LocalAuthentication, WebKit, AVFoundation, Combine, Swift Concurrency
- **Android Stack:** Kotlin, Jetpack libraries, Material Design, Android SDK
- **Architecture:** MVVM, Clean Architecture, Modularization, DI with Hilt and Koin
- **Tooling:** xcodebuild, Instruments, Systrace, GitLab CI, Firebase, Docker
- **Testing:** XCTest, Espresso, JUnit, snapshot tests, UI Automation
- **Cross-Platform:** Kotlin Multiplatform Mobile (KMM), Flutter
- **Mentorship:** Led mobile teams, reviewed PRs for architectural correctness, and onboarded new engineers
- **App Store & Play Store:** Full submission lifecycle, guidelines, and release management

SKILLS

Languages: Swift, Kotlin, Java, Objective-C, Dart, Python

Frameworks: SwiftUI, UIKit, Jetpack Compose, Flutter, KMM, Dagger, Hilt, GoogleMap

Tools: Xcode, Android Studio, xcodebuild, Instruments, Fastlane, GitLab CI, Firebase, Docker

Testing: XCTest, Espresso, Snapshot Tests, Roboelectric, UI Automation

Databases: Realm, CoreData, SQLite, Room db

Architectures: MVVM, MVP, MVI, Clean Code Architecture

APIs & Services: RESTful APIs, gRPC, Firebase, GraphQL, Secure Keychain, BiometricPrompt

Other: Crashlytics, GCP (good to have), Memory & Performance Profiling, App Store Connect

EMPLOYMENT HISTORY

SENIOR LEAD MOBILE DEVELOPER Jul 2024 - Present

British Petroleum-BP Bangalore, India

- ♦ Built **payment modules** using **SwiftUI** on iOS and **Jetpack Compose** on Android, integrating ApplePay, GooglePay, and secure credential storage using Keychain (iOS) and Keystore (Android).
- ♦ Delivered **real-time location/map modules** with **Apple Maps + CoreLocation** on iOS and **Google Maps + FusedLocationProviderClient** on Android, supporting POI discovery and geofencing.
- ♦ Owned end-to-end delivery of **key mobile features**, from **architecture and implementation to performance benchmarking** and release strategy.

- ◆ Implemented CI/CD pipelines for mobile apps using **Xcodebuild, Fastlane, GitLab CI, and Docker**, automating build/test/release workflows and enabling gated feature rollouts and canary testing.
- ◆ Implemented modular design using **Combine, MVVM, and Clean Architecture**, resulting in 50% faster feature onboarding and testability.
- ◆ Replaced 3rd-party SDKs with native frameworks and **reduced build time by 30%** via static module separation and SPM integration. Reduced crash rates and ANRs through structured **crash analysis using Instruments (iOS), StrictMode + Systrace (Android)**, and proactive memory profiling.
- ◆ **Mentored junior engineers, conducted peer reviews, and helped** define onboarding best practices for mobile teams.

SENIOR MOBILE DEVELOPER Nov 2021 - May 2024

Cradlepoint, (an Ericsson company) Bangalore, India

- ◆ **Built a Kotlin Multiplatform Mobile (KMM) shared module** for networking and business logic using **Ktor and Kotlinx Serialization**, reducing code duplication by **70%** across Android and iOS apps; exposed APIs to Swift using expect/actual for seamless integration.
- ◆ **Architected a scalable, modular Android application using MVVM and Hilt DI**, with **offline caching** and sync strategies for managing IoT/network devices, improving feature development speed by **30%**.
- ◆ **Designed and implemented a robust biometric login system** using **BiometricPrompt**, Android Keystore, and custom fallback logic, resulting in a **25% increase in successful biometric authentications** and reduced login failures.
- ◆ **Created a lightweight in-house analytics framework for Swift apps** using **protocol-oriented architecture**, supporting **Firebase, Segment, and HTTP logging**, and reducing analytics SDK bloat by **50%**.
- ◆ **Developed a production-ready cross-platform Flutter app**, enabling **shared codebase** for internal tools and reducing development time by **40%** for iOS and Android teams.

MOBILE ARCHITECT - ANDROID/IOS May 2019 - Oct 2021

JP Morgan Chase and Co Bangalore, India

- ◆ **Integrated Face ID and Touch ID authentication** with secure **Keychain credential storage**, enhancing login UX and meeting **100% compliance** with internal security guidelines.
- ◆ **Developed real-time SwiftUI modules using MVVM and Combine**, enabling **live market data updates** with optimized memory usage, reducing UI lag by **40%** on data-intensive screens.
- ◆ **Implemented static code analysis and UI quality gates** by integrating **Detekt, SwiftLint, and screenshot tests** into merge pipelines, catching **90% of regressions** and enforcing consistent code style across Android and iOS apps.
- ◆ **Engineered dynamic feature delivery** using **Play Feature Modules** and integrated **Firebase Remote Config** for real-time feature toggling, resulting in a **35% reduction in base APK size** and enabling **A/B testing without full releases**.

MEMBER OF TECHNICAL STAFF Sep 2016 - Mar 2019

VMware, India Bangalore, India

- ◆ **Engineered core features for the VMware Workspace ONE app**, focused on **Enterprise Mobility Management (EMM)**, enabling secure mobile access for **100,000+ enterprise users**.
- ◆ **Developed an internal real-time chat application** with secure messaging and background sync support, improving team communication and reducing email-based interactions by **45%**.
- ◆ **Contributed to the VMware Boxer app**, building and optimizing key modules of the **native email client** (Compose, Sync, Notification), enhancing load times by **30%** for high-volume mailboxes.
- ◆ **Refactored the network layer using OkHttp interceptors**, implementing unified **logging, retry, and error handling policies**, which reduced HTTP error rate by **25%**.

SENIOR SOFTWARE ENGINEER Jan 2015 - Sep 2016

Freecharge, IndiaBangalore, India

- ♦ **Migrated legacy codebase to MVVM architecture**, improving **separation of concerns**, enabling **80% unit test coverage**, and reducing crash rate by **35%** through better lifecycle management.
- ♦ **Integrated Razorpay SDK and UPI payment flows** with **real-time transaction feedback** using Kotlin Coroutines, achieving a **98% transaction success rate** and reducing payment-related support tickets by **40%**.
- ♦ **Engineered a custom retry engine for failed UPI/NetBanking transactions** using **WorkManager** and **Room DB queues**, increasing transaction completion rates by **20%** in flaky network scenarios.
- ♦ **Boosted user engagement and retention** through **Firestore Remote Config** by implementing **A/B testing** and **feature flag rollouts**, contributing to a **15% lift in session duration** and more controlled feature experimentation.

SOFTWARE DEVELOPER Jun 2012 - Dec 2014

Reliance JIO, IndiaMumbai, India

- ♦ **Contributed to the development of Jio News and Jio Magazine apps**, delivering personalized content experiences to **10M+ users** with a focus on performance and scalability.
- ♦ **Implemented real-time sync for articles, watchlists, and preferences** using **Firestore and Firebase Cloud Messaging**, enabling **instant updates** and reducing user churn by **20%**.
- ♦ **Built an offline-first user experience** using **CoreData and NSFetchedResultsController**, ensuring smooth access to content in low-connectivity environments and improving session retention in Tier-2/3 regions.
- ♦ **Developed the Jio Chat application from scratch** using the **XMPP protocol**, supporting **real-time messaging, presence, and typing indicators**, and scaling to handle **100K+ concurrent users**.

EDUCATION

BACHELOR OF TECHNOLOGY CSE May 2008 - Apr 2012

National Institute of Technology AgartalaAgartala, India - 8.65 CGPA

LIVE APPS

- ♦ [BP Me Global](#)
- ♦ [Cradlepoint NetCloud Manager](#)
- ♦ [Cradlepoint Verify](#)
- ♦ [J.P. Morgan Mobile](#)
- ♦ [VMware Workspace ONE](#)
- ♦ [Freecharge](#)
- ♦ [Jio News](#)
- ♦ [Jio Chat](#)

WEBSITES, PORTFOLIOS, PROFILES

LinkedIn: [linkedin.com](#), GitHub: [github.com](#), Stack Overflow: [stackoverflow.com](#), Medium: [medium.com](#), LeetCode: [leetcode.com](#).