Shah Md Imran Hossain

SENIOR iOS SOFTWARE ENGINEER
Dhaka, Bangladesh · +88 017 7329 9107 · imran.ru.cse7@gmail.com
LinkedIn · GitHub · Technical Blog

PROFESSIONAL PROFILE

Senior iOS Software Engineer with 7 years at Samsung R&D Institute Bangladesh, spanning IoT device onboarding and digital-health applications. Promoted in 2022; experienced in mentoring engineers, modernizing production frameworks, building scalable SwiftUI components, and solving complex product issues.

TECHNICAL SKILLS

Languages & UI: Swift, Objective-C (legacy migration), SwiftUI, UIKit, Combine, AVFoundation, Lottie

Networking & data: URLSession, Swift Concurrency (async/await), GRDB, SwiftData

Architecture & testing: MVVM, MVVM-C, VIPER, dependency injection, reusable UI components, XCTest, Swift Testing, TDD, localization

IoT & engineering tools: OCF, Bluetooth Low Energy (BLE), Matter, Wi-Fi, Xcode, Git, GitHub, GitHub Projects, Jira

PROFESSIONAL EXPERIENCE

Samsung R&D Institute Bangladesh | Nov 2019–Present

Senior Software Engineer (Mar 2022–Present) · Software Engineer (Nov 2019–Feb 2022)

OneSamsungHealth — Health Monitor & SamsungAnalytics | Oct 2025–Present

- Migrated legacy SamsungAnalytics from Objective-C to Swift, repaired server communication, and delivered a documented wrapper adopted by 120 iOS engineers across OneSamsungHealth.
- Developed Health Monitor features for Sleep Apnea (FDA-authorized) and Blood Pressure, including onboarding, View History, and Breathing Disruptions views.
- Implemented Galaxy Ring message parsing, GRDB persistence, scalable design patterns, and network communication using URLSession and Swift Concurrency (async/await).
- Built reusable SwiftUI components—including More options, label pages, and multi-icon buttons—shared across Sleep Apnea and Blood Pressure.
- Mentored 2 iOS engineers, reviewed implementation and AI-generated code, and guided refactoring toward design patterns and reusable Swift/SwiftUI architecture.
- Resolved 25+ PLM defects and 50+ UX specification issues against documented health-product requirements, contributing to regulatory readiness.

SmartThings iOS — Onboarding & Add Device | **Nov 2019–Sep 2025**

- Built and maintained Generic and Guided Onboarding flows for QR scanning, device verification, Wi-Fi setup, ownership transfer, registration, and recovery/error handling.
- Developed Add Device discovery experiences for Samsung and third-party devices, including nearby scanning, QR entry points, and recommendation lists.
- Integrated onboarding across OCF, BLE/Matter, Wi-Fi hubs and TVs, cameras, and air-quality sensors, including country/device-specific localization.
- Maintained Montage Asset Management and Catalog integrations for localized images, video, text, and device data; fixed legacy issues and documented common solutions.
- Resolved 1,650+ PLM issues and authored troubleshooting documentation to help other engineers diagnose recurring onboarding problems.
- Mentored 5 iOS engineers in feature delivery, debugging, and code reviews; delivered learning sessions on unit testing with dependency injection and localization.
- Introduced unit tests for legacy code and used test-driven development (TDD) for new onboarding modules.

SELECTED iOS APPLICATIONS

Lif: Habit & Water Tracker | Live on the App Store | **App Store**

- Co-developed a live iOS wellness app; designed the user experience and implemented SwiftUI interfaces for hydration, eye-rest, focus, and sleep tracking.
- Built frontend business logic in Swift, collaborating with an engineer responsible for GRDB persistence and other backend components.

A1 Canvas | Previously published on the App Store | **Project details**

- Developed an iOS handwriting-recognition app and trained a custom character-classification model using Apple Create ML.
- Created a custom image dataset with 200 samples per class at 256 × 256 resolution, covering 62 classes (0–9, A–Z, a–z).

AWARDS & CERTIFICATIONS

- Samsung Software Competency (SWC) — Professional Level Certification
- Excellence Award — SmartThings iOS (2022)
- Team of the Year Award — SmartThings iOS (2023)

EDUCATION

B.Sc., Computer Science and Engineering | University of Rajshahi, Bangladesh | March 2015 — April 2019