

MD ARAFAT HOSSAIN

Staff Engineer | Senior iOS Engineer | Mobile Platform Engineer

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PROFESSIONAL EXPERIENCE

Samsung R&D Institute Bangladesh Ltd.

Staff Engineer | June 2013 – Present

SmartThings iOS (2023 – Present)

- Own the Settings and MapView domains within SmartThings iOS, a leading IoT platform serving 62M+ active users worldwide.
- Drive technical design, implementation, and delivery of user configuration, support, diagnostics, content-driven experiences, and device visualization features.
- Lead architecture and feature development for MapView, integrating new device experiences including TVs, lighting systems, sensors, and Smart Home devices.
- Migrate application modules from ReactiveSwift to Combine, modernizing the reactive architecture and improving maintainability.
- Modernize application components using Swift Concurrency (async/await, actors).
- Partner with Product, QA, Design, and platform teams to define requirements and deliver large-scale mobile experiences.
- Lead application-side integration of a new rendering architecture for SmartThings MapView, driving migration from Unity to Godot Engine and defining integration strategy, platform interfaces, and rollout approach.
- Contribute to SwiftGodotKit and related projects supporting native Swift ↔ Godot interoperability for SmartThings MapView integration.
- Investigate and resolve high-impact customer issues through performance profiling, debugging, and root-cause analysis.

Samsung DeX for PC (2019 – 2023)

Technical Lead (macOS)

- Led architecture and development of Samsung DeX for macOS, contributing to a platform with 7M+ downloads and 750K+ monthly active users.
- Partnered directly with Product Management to define feature roadmaps, architecture, and delivery strategy.
- Designed workflows and architecture for file transfer, clipboard sharing, wireless connectivity, device communication, and cross-device interaction experiences.
- Delivered Apple Silicon (M1) compatibility and Universal Binary support.
- Owned release planning, release management, code reviews, performance optimization, and macOS notarization pipelines.
- Collaborated with Android, Windows, QA, and Product teams to deliver major platform capabilities.
- Mentored engineers and contributed to technical planning, architecture reviews, and delivery execution.
- Developed proof-of-concept solutions and technical proposals presented to Samsung leadership and stakeholders.

Platform & Framework Engineering (2013 – 2019)

- Designed and implemented mobile UI automation frameworks used for automated testing across Android, Tizen, and iOS ecosystems.
- Developed mobile UI automation tooling that improved testing efficiency, reducing release cycle times by 2 days across Android, Tizen, and iOS ecosystems.

- Contributed to the open-source IoTivity framework, implementing OCF-compliant APIs and interoperability features for connected-device ecosystems.
- Participated in SDK and framework development enabling communication across heterogeneous IoT platforms.
- Built internal engineering tools supporting device automation, testing, and productivity workflows.

RTC Hubs Limited

Junior Programmer (iOS Developer) | September 2012 – June 2013

- Developed 8+ iOS applications using Objective-C and [GPUImage](#).
- Built camera and productivity applications for iPhone and iPad.
- Delivered MultiShot Cam, one of the company's highest-performing applications.

TECHNICAL SKILLS

Languages

Swift, Objective-C, C++, C#, Java

Apple Platform Development

UIKit, SwiftUI, Combine, Swift Concurrency, Grand Central Dispatch (GCD), XCTest

Architecture & Engineering

MVVM, MVVM-C, Mobile Architecture, Mobile Platform Engineering, Modular Architecture, Dependency Injection, State Management

Networking & Integration

REST APIs, URLSession, Firebase, Analytics Integration

Tools & DevOps

Git, GitHub, GitHub Actions, Jenkins, Swift Package Manager (SPM), CocoaPods, TestFlight

Quality & Performance

Performance Profiling, Memory Optimization, Debugging, Code Reviews, CI/CD

ACHIEVEMENTS

- Owner of key SmartThings iOS domains including Settings and MapView within a platform serving 62M+ active users worldwide.
- Technical Lead for Samsung DeX macOS platform supporting 7M+ downloads and 750K+ monthly active users.
- Led application-side architecture and integration strategy for SmartThings MapView migration from Unity to Godot Engine.
- Achieved Professional Level (Top 20%) in Samsung SW Certificate Test.
- Received Star Employee of the Month (January 2026).

EDUCATION

Bachelor of Science (B.Sc.) in Computer Science & Engineering

Rajshahi University of Engineering & Technology (RUET) | 2008 – 2012