

MD ARAFAT HOSSAIN

APPLICATION DEVELOPER | IOS, MACOS, WINDOWS

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Dhaka, Bangladesh

EDUCATION

BSc in Computer Science and Engineering, Rajshahi University of Engineering & Technology, 2012

TECHNICAL SKILLS

- Swift
- SwiftUI, UIKit
- MVVM, MVVM-C
- Combine, ReactiveSwift
- Git
- Objective-C
- Java
- Agile (Scrum)

SUMMARY

With 12+ years of experience, I specialize in developing high-performance, bug-free applications. Notable contributions include leading the Samsung DeX for PC (macOS) app and owning key features in SmartThings iOS, such as MapView, Settings, and Report Error. I also worked on Samsung Medison's 5D Viewer, integrating a graphics engine and optimizing large dataset handling. I focus on creating scalable and maintainable solutions while adapting quickly to new technologies.

WORK EXPERIENCE

Staff Engineer | Samsung R&D Institute Bangladesh | June 2013 – Present

Projects & Contributions

- **SmartThings (iOS):**
 - Led features like **Do Not Disturb**, **Emergency Alert**, and **MapView** cards (TC, Light, Soundbar cards).
 - Transitioned from **ReactiveSwift** to **Combine**.
 - Developed with **SwiftUI**, **MVVM**, **MVVM-C**, **Redux Architecture**, and **Swift**.
 - Implemented **Dark Mode** and market **VoC** fixes.
- **Samsung Medison's 5D Viewer:**
 - Upgraded the GUI and integrated Graphics Engine (developed by another team) into the app.
 - Handled IPC to open 5D Viewer via COM for volume data processing.
- **Samsung DeX for PC:**
 - Developed USB & wireless connectivity, file transfer, and Android screen rendering via RTSP protocol.
 - Led macOS application build, notarization, and release processes.
 - Collaborated with stakeholders to integrate clipboard sharing, PC-to-Android keyboard/mouse sharing.
- **UI Automator Tool:**
 - Built a solution similar to Appium for testing iOS apps as Eclipse plugin
 - Integrated Tizen/Android UI Automator with the Eclipse plugin tool.
- **IoTivity:**
 - Developed OCF-compliant APIs for IoTivity.
 - Contributed to open-source projects for Android & Linux test applications.
 - Developed Spring Framework-based web services.

Jr. Programmer | RTC Hubs Limited | September 2012 – June 2013

As my first professional role, I developed over **8 iOS apps**, gaining proficiency in **Objective-C**. Key contributions include:

- Developed **multiple camera apps** with live camera effects and timers.
- Created **reminder apps** for iOS (iPhone/iPad).
- Integrated [GPUImage](#), a 3rd-party open-source library, into several projects.

This role provided me with a strong foundation in mobile app development and allowed me to build practical experience in **Objective-C**.

ACHIEVEMENTS

- SmartThings (iOS): 4.5+ rating with 20M+ downloads.
- DeX for PC app: 7M+ downloads with 757K+ active monthly users.
- Samsung Mobile R&D CTO Award, 2019 for significant business contribution
- SRBD Best Team Award, 2019 for excellence in team collaboration and performance

