

MD ARAFAT HOSSAIN

Staff Engineer | iOS, macOS

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CAREER SUMMARY

Experienced Software Engineer with 12+ years of expertise in designing, developing, and optimizing applications across multiple platforms. Skilled in modern programming languages, software architecture, and agile methodologies. Proven ability to lead projects, drive innovation, and deliver high-performance, scalable solutions. Passionate about problem-solving, continuous learning, and adopting new technologies.

TECHNICAL SKILLS

- **Languages & Frameworks:** Swift, Objective-C, Java, C, C++, C#, WPF, MFC
- **iOS Development:** UIKit, SwiftUI, Combine, ReactiveSwift
- **Architecture & Design Patterns:** MVVM, MVVM-C, Redux Architecture
- **Tools & Practices:** Debugging, Git, REST API, Unit Testing, CI/CD
- **Development Methodologies:** Agile, Scrum

WORK EXPERIENCE

Samsung R&D Institute Bangladesh Ltd. | Staff Engineer-I Mar 2021 - Present

- **Expertise:** iOS App Development (Swift) | SwiftUI, UIKit, Combine, ReactiveSwift
- **SmartThings (iOS):** Contributing to **Settings**, **MapView**, and core features | *~4.5 rating, 20M+ downloads*
- **Key Feature Developments:**
 - *Do Not Disturb* and *Emergency Alert* settings
 - Enhanced **MapView** with TV cards, light cards, and new device integrations
 - **Dark Mode Implementation:** Addressed **market VoCs** and resolved **QA issues**
- **5D Viewer (Windows PC App):** Led UI upgrades for **Ultrasound Machine** | WPF
- **Performance Optimization:** Improving memory usage and conducting **code reviews** for **MFC-based Windows applications** | DeX for PC

Samsung R&D Institute Bangladesh Ltd. | Engineer-III Mar 2019 – Feb 2021

- **Lead Developer & Release Maintainer** | **DeX for PC (macOS)** | *7M+ downloads, 757K+ monthly users*
- **Awards & Recognition:**
 - **Samsung Mobile R&D CTO Award, 2019** – For significant business impact
 - **SRBD Best Team Award, 2019**
- **Major Contributions to DeX for PC (macOS):**
 - **Universal app release** for **Apple M1 Macs**
 - **USB & Wireless connectivity** between Mac & Android
 - **File Transfer:** *Drag & Drop, Copy-Paste* between Mac and Android
 - **Android Screen Rendering** on macOS via **RTSP protocol**
 - **Mac Keyboard, Mouse, and Clipboard Sharing** with Android

Samsung R&D Institute Bangladesh Ltd. | Engineer-II Mar 2017 – Feb 2019

- **UI Automator (Android, Tizen):** Released **B2B testing solution**, now used internally by Samsung
- Developed an **Appium-like framework** for testing iOS applications
- Created an **Eclipse plugin tool** for generating automated test cases

- Integrated **Tizen UI Automator** and **VNC Viewer** into the Eclipse plugin

Samsung R&D Institute Bangladesh Ltd. | Engineer-I

Jun 2013 – Feb 2017

- IoTivity Framework SDK: Released and adopted by Samsung, LG, Microsoft IoT products
- OCF-compliant API development for IoTivity Open Source
- Developed a C# .NET desktop app to control Android/Tizen devices remotely
- **Achieved Advanced Level (Top 50%)** in Samsung's SW Certificate Test

RTC Hubs Limited | Junior Programmer

Sep 2012 – Jun 2013

- Multi Shot Cam ranked top chart for 2 weeks, generating the highest revenue for RTC Hubs
- Developed **8+ iOS apps**, including **Camera & Reminder apps**, published on the **App Store**
- Integrated **3rd-party open-source library (GPUImage)** for real-time camera effects

MENTORING AND LEADERSHIP

Leadership & Key Contributions

- **SmartThings (iOS) | Settings & MapView** (*Jun 2024 – Present*)
 - Led **Settings & MapView** feature enhancements
 - Managed **Market VoCs**, addressed **QA issues**, and maintained **documentation**
- **5D Viewer (Windows PC App)** (*Feb 2023 – Jan 2024*)
 - Facilitated communication with **HQ counterparts**
 - Led **project documentation** and knowledge transfer
- **DeX for PC (macOS)** (*May 2019 – Sep 2023*)
 - Collaborated closely with **Product Managers & VPs** to define **functional & non-functional requirements**

Mentorship

- **Ongoing mentorship of 3 team members** in the **Settings & MapView module** to maximize efficiency and quality
- **Interviewed candidates** for fresher roles and mentored **5 new recruits** post-hiring
- **Guided 12+ team members as Tech Lead for DeX for PC**, ensuring high-quality deliverables

EDUCATION AND CERTIFICATION

Bachelor of Science in Computer Science and Engineering

Rajshahi University of Engineering & Technology

Feb 2008 – Sep 2012