

MD ARAFAT HOSSAIN

Staff Engineer | iOS, macOS

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CAREER SUMMARY

Experienced Software Engineer with over 12 years of expertise in building and optimizing applications across iOS, macOS, Windows, and cross-platform environments. Proven ability to lead cross-functional teams, deliver high-performance apps, and mentor engineers. Specialized in Swift, iOS frameworks, and scalable architecture patterns. Known for driving innovations with measurable business impact and aligning solutions with strategic goals.

TECHNICAL SKILLS

- **Languages & Frameworks:** Swift, Objective-C, Java, C/C++, C#, WPF, MFC
- **Mobile & Desktop Development:** UIKit, SwiftUI, Combine, ReactiveSwift, WPF
- **Architectures:** MVVM, MVVM-C, Redux
- **Tools & DevOps:** Git, Perforce, REST API, Unit Testing (XCTest, JUnit), CI/CD (GitHub Actions, Jenkins)
- **Methodologies:** Agile, Scrum

WORK EXPERIENCE

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

- Led development of **Settings** and **MapView** features in **SmartThings** (20M+ downloads, 4.5+ rating)
- Implemented **Do Not Disturb** and **Emergency Alert** settings, enhancing user control and safety features
- Enhanced **MapView** by integrating **TV/light device cards** and new device support
- Migrated codebase from **ReactiveSwift** to **Combine**, aligning with modern Apple ecosystem standards
- Delivered **Dark Mode** support and addressed key **market VoCs**
- Modernized the UI of the **5D Viewer (WPF)** used in medical ultrasound systems
- Improved **IPC functionality using COM** in 5D Viewer, ensuring stable device communication
- Served as **Tech Lead** for **DeX for PC** (7M+ downloads, 757K+ monthly users), guiding feature planning and delivery
- Conducted **memory optimizations and code reviews** for MFC-based legacy DeX Windows applications
- Achieved **Professional Level (Top 20%)** in Samsung's SW Certificate Test

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

- Served as **Lead Developer & Release Maintainer** of the **DeX for PC (macOS)** application
- **Spearheaded universal macOS app support for Apple M1 architecture**
- Enabled seamless **USB and wireless connectivity** between Android devices and macOS
- Delivered robust **file transfer, RTSP-based screen rendering, and input sharing** (clipboard, keyboard, mouse) features
- Collaborated with cross-functional teams to ensure stability, performance, and user experience
- **Awards & Recognition:**
 - **Samsung Mobile R&D CTO Award, 2019** – For significant business impact
 - **SRBD Best Team Award, 2019**

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

- Built **UI Automator** for Android & Tizen used internally for B2B testing
- Developed an **iOS testing framework** similar to Appium

- Created Eclipse plugin for generating test cases and integrating tools

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

Jun 2013 – Feb 2017

- Contributed to the development of the **IoTivity SDK**, adopted by Samsung, LG, and Microsoft IoT products
- Developed **OCF-compliant APIs** for open-source IoT interoperability
- Built a **C# .NET desktop application** for remote control of Android and Tizen devices
- Achieved **Advanced Level** (Top 50%) in **Samsung's Software Certification Test**

RTC Hubs Limited | Junior Programmer

Sep 2012 – Jun 2013

- Created **Multi Shot Cam**, a **top-charted app** that generated the highest revenue at **RTC Hubs**
- Developed **8+ iOS applications**, including camera and productivity tools
- Implemented **real-time camera effects** using [**GPUImage**](#) in multiple apps

MENTORING AND LEADERSHIP

- **Tech Lead, DeX for PC** project (2021–2023) — led feature planning, delivery, and cross-platform coordination for a product and mentored **12+ team members**, ensuring high-quality deliverables
- **Part Lead & Lead Developer, DeX for PC (macOS)** — oversaw architecture, implementation, and release processes
- **Part Lead, SmartThings (Settings & MapView)** — led roadmap planning, handled market VoCs, and resolved QA issues
- **Tech Lead, 5D Viewer** — facilitated communication with HQ, managed documentation, and conducted knowledge transfer
- Delivered a **proof-of-concept of DeX for macOS** to Samsung CTO, driving executive buy-in and strategic direction
- Collaborated closely with **Product Managers & VPs** to define **functional & non-functional requirements** for **DeX** project
- Onboarded **5 new hires**, and participated in recruitment and interview evaluations

EDUCATION AND CERTIFICATION

B.Sc. in Computer Science and Engineering

Rajshahi University of Engineering & Technology

Feb 2008 – Sep 2012