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 iOS** (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

SmartThings (iOS) – Settings & MapView   Mar 2024 – Present
- **Part Lead** - managing roadmap, feature ownership, and development execution
- Led responses to Market VoCs, resolved QA issues, and ensured stakeholder alignment

Samsung Medison – 5D Viewer   Jan 2023 – Feb 2024
- **Part Lead** - managing roadmap, feature ownership, and development execution
- Led responses to Market VoCs, resolved QA issues, and ensured stakeholder alignment

Samsung DeX for PC   Mar 2019 – Dec 2022
- **Tech Lead** - responsible for feature planning, delivery, and cross-platform coordination
- Mentored **12+ engineers**, ensuring timely and high-quality deliverables.
- Served as **Lead Developer** (macOS), overseeing architecture, implementation, and release pipeline
- Delivered a PoC of the **macOS** client to the **CTO** of Samsung Electronics, securing executive alignment
- Collaborated with Product Managers and VPs to define functional and non-functional requirements

Organization-wide
- Onboarded **5+ new engineers** across multiple projects
- Actively participated in recruitment processes, including technical interviews and evaluations

EDUCATION AND CERTIFICATION

B.Sc. in **Computer Science and Engineering**
Rajshahi University of Engineering & Technology   Feb 2008 – Sep 2012