MD ARAFAT HOSSAIN

Staff Engineer | iOS, macOS

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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
- Development/Unit Test
- CI/CD
- REST API
- C, C++, C#, WPF, MFC
- Agile (Scrum)

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

PROFESSIONAL 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.

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 **Swift, UIKit, SwiftUI, MVVM, MVVM-C, and Redux Architecture**
  - 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**.