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**](https://github.com/BradLarson/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**.

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)

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md arafat hossain

Staff Engineer | iOS, macOS

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