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# SOMESH ARORA
## Mobile Application Developer

## Education

**The University of Texas at Arlington**

- B.S. in Computer Science
- GPA: 3.680
- Expected: August 2018

## Skills

**iOS and Android Development:**

Swift, Objective-C, Java, C#, Cocoa Pods, SDK, APIs, BLE, XML, Storyboards, Sketch, XCode, Android Studio, Xamarin

**Methodologies and Tools:**

Agile, Scrum, SDLC, Visio, GitHub, Genymotion, Slack, Trello, Jira, Confluence, Visual Studio, Overleaf, jacORB, PuTTY, Vim, NetBeans, Sublime

**Frameworks:**

Cocoa Touch, UIKit, ARKit, Ionic, Appium, Bootstrap

**Databases:**

Firebase, MySQL, SQLite, Core Data

**Other Languages:**

C, C++, Python, JavaScript, UML, CSS, HTML5, MATLAB, Git

## Leadership

- Executive VP, National Society of Collegiate Scholars (2015-2017)
- 200+ Volunteering Hours
- Site Leader, The Big Event
- Site Leader, Super Service Saturday
- Leadership Honors Program
- Foundation of Leadership Course

## On-Campus Jobs

- Resident Assistant, Student Affairs
- Site Leader, Alternative Breaks
- Peer Academic Leader, MAVS 1000
- Student Assistant, Arlington ISD

## Achievements

- Aim and Utility Award: Cryptography and Cyber Security presentation
- 1st Prize: Augmented Reality application demonstration
- Outstanding Freshman Scholarship
- Outstanding Junior Scholarship from Department of Computer Science
- Engineering Dean's List

## Work Experience

**Mobile Application Developer Co-op**  Jul 2017–Jan 2018

Abbott Laboratories  Sylmar, CA

**Asset Manager iOS Application** | Agile, Swift, Firebase, Cocoa Pods, Sketch

- App checks-in, checks-out, and manages thousands of assets
- Used agile approach to derive requirements as user stories from end-user
- Designed fully responsive UI layouts using Sketch
- Programmed barcode scanner using AVFoundation framework to scan employee ID and asset's barcode to automate the entire process
- Other features include admin & user privileges, push notifications, reminder emails, device history and status, asset request form and more

**BLE OTA iOS Application** | Objective-C, Cocoa Touch, CoreBluetooth, Sketch

- App tests and analyzes medical device prototypes using BLE 4.0
- Use adverting mode to discover and display list of available BLE peripherals
- Establishes a connection with peripheral based on user selection
- Performs test and analysis on connected peripheral at various frequencies, modulations, channels, and time intervals
- Internally used by Firmware department in the US (Sylmar) and China

**Other Projects and Duties** | Scrum, Appium, Testing, jacORB, Teamwork

- Contributed to testing (characterization, language, maintenance) and debugging of Confirm Rx$^{TM}$ iOS and Android applications
- Participated in scrum meetings to update the team on ongoing progress and discussed obstacles

**Undergraduate Teaching Assistant**  Fall 15, Spring 16, Spring 18

The University of Texas at Arlington  Arlington, TX

- Assist instructor to teach Engineering problem-solving course, ENGR 1300
- Engage students to work in small groups and solve engineering problems
- Coach students for algorithm development (MATLAB) and engineering concepts, facilitate lab sessions, and proctor exams

## Relevant Projects

**Offline Password Wallet iOS Application** | Swift, Core Data, Sketch

- App encrypts and stores sensitive information locally on the device
- To prevent information theft, the app can only be accessed using the registered user's biometrics (Touch ID/Face ID)

**Heads Up Display (HUD) iOS Application** | Swift, CoreLocation

- App displays current speed and direction of travel on vehicle's windshield
- Features day and night mode for improved visibility supports multiple speed units and provides over speed warnings

**UT Arlington Resources Android Application** | Java, SQLite, Agile

- App allows users to access information of all campus resources at one place
- Features include access to all campus event information, form/join clubs, buy/sell items, participate/host discussions, advising and dining hours

**POS Kiosk Android App for Visually Impaired** | Java, Google Talkback, BitBucket

- App works as a POS kiosk client, on an embedded android device, in a laundry room to select washers/dryers and process payments
- Utilizes Google Talkback and motion gestures to assist visually impaired users
- Worked in a team of 5 to research accessibility options, wrote formal SRS and ADS documentations, designed sleek UI interface, and developed application