

# SOMESH ARORA

## Mobile Application Developer

## Education

### The University of Texas at Arlington

- B.S. in Computer Science
- GPA: 3.680
- Expected: August 2018
- Engineering Dean's List

## Skills

### iOS & Android Development:

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

### Methodologies & Tools:

Agile, SDLC, Visio, GitHub, AccuRev, Vim, Sketch, Slack, Trello, Jira, Confluence, Genymotion, Visual Studio, Overleaf

### Frameworks:

Cocoa Touch, UIKit, ARKit, Ionic, Appium

### Cross-Platform Development Tools:

Xamarin

### Databases:

Firebase, MySQL, SQLite, Core Data

### Other Languages:

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

## Achievements

- Aim & Utility Award: Cryptography and Cyber Security presentation
- 1<sup>st</sup> Prize: Augmented Reality application demonstration
- Outstanding Freshman Scholarship
- Outstanding Junior Scholarship from Dean of Engineering


## Leadership

- Resident Assistant, UT Arlington
- Executive VP, National Society of Collegiate Scholars (2015-2017)
- 200+ Volunteering Hours
- Site Leader, Alternative Breaks
- Site Leader, The Big Event
- Leadership Honors Program
- Foundation of Leadership Course

## Work Experience

### Mobile Application Developer Co-op

Jul 2017–Jan 2018

Abbott Laboratories 

Sylmar, CA

#### Asset Manager iOS Application | Swift, Firebase, Cocoa Pods, Git, Sketch

- Developed an iOS application, Asset Manager to checkout, check-in, and manage thousands of assets.
- Used agile approach to design, develop, and test the application
- Integrated barcode scanner to scan employee ID (code 128) and asset's barcode (code 39) to automate the process.
- Other features include admin & user privileges, push notifications, reminder emails, device history & status, asset request form etc.

#### BLE OTA iOS Application | Objective-C, BLE 4.0, Cocoa Touch, XCode

- App discover and display nearby BLE peripherals of a certain type, connects to it, and allows the user to test the connected peripheral at various frequencies, modulations, channels, and time intervals.
- Performs read and write operations to the device's firmware.
- The application is currently used by Firmware department both, in the United States(Sylmar) and China to test the device prototypes.

#### Other Projects and Duties | Agile, Appium, Testing, Teamwork

- Contributed to testing (characterization, language, maintenance) and debugging of Confirm Rx™ iOS and Android application.
- 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

- Paired up with an instructor to teach engineering problem-solving course, ENGR 1300 (engineering and its disciplines).
- Coached students for algorithm development (MATLAB) and engineering concepts, facilitated lab sessions, and proctored exams.

## Relevant Projects

#### Offline Password Wallet iOS Application | Swift, Core Data, Sketch, Git

- App encrypts and stores sensitive information (e.g. login credentials) 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, Location API, Sketch

- Developed HUD app to enrich users driving experience by displaying the current speed and direction of travel on the 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, Firebase, SQLite

- Developed an app for UT Arlington students to access and utilize various campus resources at one place.
- App allows users to access campus event information, form/join clubs, buy/sell articles, participate/host discussions, and access other resources such as advising and dining hours.

#### POS Kiosk Android App for Visually Impaired | Java, Google Talkback API

- App works on embedded android device and allows users to utilize laundry room functionality.
- Works as a POS kiosk client to process payments for washers/dryers.
- Utilizes Google's talkback API and color schematics to assist visually impaired individuals.