

**California State University San Bernardino  
School of Computer Science and Engineering**

**CSE 575 Internship in Computer Science**

**Date**

**June 12, 2019**

**Time**

**3:15PM**

**Location**

**JB 359**

**Title**

**Bubble In Mobile App**

**Student**

**Ammar Arif**

**Advisor**

**Dr. Concepcion**

**Abstract**

**Over the past 10 weeks, I have interned under the supervision of Dr. Arturo Concepcion with Dr. Helena Addae as the client. During my time, I have been working on Bubble In – a replacement for scantron.**

**During my time as the software-development intern, I have worked on the development of Android as well as iPhone version of the app, in addition to the back-end web application. For Android development, Android Studio was used as the IDE with JAVA as the main programming language while for iOS development, Xcode was used with SWIFT 4 as the main language. The back-end was developed using the laravel framework with PHP for scripting and mySQL was used for database management.**

**Currently, after much development, we have successfully created testable Android and iPhone versions. Both versions went through alpha-testing in Dr. Addae's class. In addition, we have a working back-end operating on a cloud server.**