Zuheir Chikh Al Sagha

Computer Engineering
University of Waterloo

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Relevant Experience

iOS/Android Developer
GymNext

September 2016 - Present   Penetanguishene, Ontario, Canada

- Software developer in a team of 3 at a small fitness startup developing a cross platform application used to control a workout timer via a bluetooth connection
- Tasked with improving user retention within the app by redesigning and implementing a new user interface as well as writing back end code to support new timer modes requested by users
- Implemented support for controlling multiple clocks and heart rate monitors at once using Core Bluetooth and Android Connectivity to connect to peripheral devices via a Bluetooth LE connection
- Developed a platform for cross platform phones to communicate with one another via a Bluetooth LE connection by setting up the devices as bluetooth peripherals. This allowed for data transfer between both iOS and Android devices and in turn helped to support multiple users controlling the same clock at once
- Developed an Android Wear app including 2D pickers, multiple faces to control timers and a dynamic list of active timers which allowed users to control their timer via a connection to the mobile app running on their phone or tablet
- These changes resulted in an increase of downloads on both the App Store and Google Play store

Software Developer
D+H

January 2016 - April 2016   Mississauga, Ontario, Canada

- Inherited an online payment service written in legacy code which allows clients to notify billers when switching bank accounts
- Tasked with implementing a search function using the ASP.NET framework which allowed clients to search for orders in the database as well as fix defects found by QA within the Payment Manager solution
- Creating an mvp for a biller mapping solution using HTML and Javascript which allowed for D+H to map current billers in their system to those that financial institutes provide them on a bi-weekly basis

Professional Skills

Languages
Swift 3 | Java/Android | C# | C++ | C

IDE's
XCode | Android Studio | Eclipse | Visual Studio

Web Dev
HTML & CSS | ASP.NET | Javascript | SQL

Design
Sketch | Adobe Creative Suite | Visio

Projects

WombDefender
September 2016 - Present

- Lead developer for an iOS game written in Swift in which users must swipe to create barriers which block incoming objects from reaching the center of the screen
- Utilized UIKit to create a user generated BezierPath by recognizing touch locations and creating a barrier where the user drew a path
- Implemented UIDynamicBehaviour to create collision behaviours as well as a radial gravity field which attracted randomly generated views to the center of the screen
- Implemented custom segues and animations to give the app a more cohesive look and feel
- Created a worldwide leaderboard using a node server which keeps track of all top scores and generates a table based on highest rank
- Designs: behance.net/zuheiralsa502f

Tasks
May 2016

- Created a reminders application to familiarize myself with Swift in order to help organize my schedule better
- Implemented table views, scroll views and custom table cells in order to differentiate between tasks based on priority and time frames

JoinMi Messaging
December 2015

- Project lead for mobile app designed to create quick mass texting templates for event invites
- Created sketches, wireframes, mockups, user flows and use cases for app

GeoBrain
August 2015

- Developed an app in Java using the swing framework which generated a random quiz on the countries of South America
- Wrote both front and back end code to keep track of scores

Other Experience

Swim Team Captain
Appleby College - 2015

- Demonstrated leadership by handling all administrative and management duties for 5 months

Academic Representative
Appleby College - 2015

- Started a mentorship program which paired grade 12 students with grade 9 boarding students to ensure a smooth transition into highschool