Joe Michael Allen

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EDUCATION

University of California, Riverside: Ph.D., Computer Science. Target Completion Date: June 2019
University of California, Riverside: M.S., Computer Engineering. June 2016
University of California, Riverside: B.S., Computer Engineering. June 2015. Cum Laude

COMPETENCIES

- Languages: C++, basic Java, basic Python, basic HTML, CSS
- Tools/Software: Eclipse, AVR Studios, Android Studios
- Skills: Embedded Systems, Web Development, Android Development, Databases, Algorithms, Date Structures

TECHNICAL PROJECTS

iOweWho - Web Application: A web based application created to help users manage money between friends
- Worked out the Mathematics behind creating and maintaining bills which includes creating bills that repeated until a specified date using a chronjob
- Implemented the functionality behind searching for and adding friends
- Designed the functionality behind creating groups and creating bills among groups

RLinks - Web Application: A light weight version of Linkedin created to show understanding of databases
- Programmed the functionality of sending, receiving, and interacting with messages
- Designed the interface which allowed users to view and interact with connections
- Worked on the logic behind third-degree connections

UC Lock - Bluetooth Door Lock Embedded System: Device created using Bluetooth to lock/unlock a door based on specific input
- Used an ATmega1284 Microcontroller with USART for all the logic
- Used a Bluetooth Module to transfer data from an Android application to the microcontroller
- Used a Stepper Motor to make the lock turn based on proper input

Family Locator - Android Application: An Android application created for users to monitor friends and family
- Implemented the "Circles" feature which includes adding, viewing, and removing different "Circles" the user wants
- Created and developed all aspects of the Messaging feature. This includes creating, viewing, and sending messages

LED Platform Jumper - Embedded System: Game using various hardware and software components
- Used an ATmega32 Microcontroller for all the logic of the system
- Used an 8x8 LED Matrix to display the game

WORK EXPERIENCE

Resident Advisor, Residential Life and Services, University of California, Riverside (Sept 2015-June 2016)
- Respond to concerns, questions, complaints, and emergencies within the community

Highlander Orientation (Family Orientation Program Assistant), Student Life, University of California, Riverside (Jan-Aug 2015)
- Assisted with the planning and implementation of the Family Orientation and the Spanish Language Orientation sessions

BCOE Ensure Peer Leader Bourns College of Engineering, University of California, Riverside (Sep 2014-May 2015)
- Facilitated group sessions regarding transitional, academic, and college ready skills relating to the field of Engineering

LEADERSHIP

Vice President, Swipe Out Hunger, University of California, Riverside (Sep 2015 – Present)
- A service organization which converts unused meal-swipes to money to feed the homeless around Riverside

First-Year Mentor, Student Life, University of California, Riverside (Sep 2013 – June 2014)
- Mentored students through their first year in college; exposing them to resources and teaching them how to be successful

Professional Development Captain, Tau Beta Pi, University of California, Riverside (Sep 2014 – June 2015)
- In charge of events to advance personal development and professional advancement