Zubeir Osman

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Objective: To progress my knowledge and skills in software by interning in a challenging but instructional environment. Motivated to learn many aspects of software including, but not limited to, full stack development, machine learning, IOS/Android development and A.I.

Personal Website   osmanzm.github.io/portfolio

Education   Vanderbilt University, Bachelor of Science in Computer Science   December 2019

Relevant   Web Based Systems and Architecture, Programming and Problem Solving with Java,

Coursework   Program Design and Data Structures with C++, Intermediate Software Design and Design Patterns, Discrete Structures, Digital Logic, Computer Organizations

Internships   **PayPal Site Reliability Engineering**   *Software Engineer*   May 2018 – August 2018

- Developed Front End tools and websites to shift website traffic in order to prevent site outages
  - Incorporated HTML, CSS, JS, jQuery, and Python
- Created dashboards/web plugins using company API's and databases to help display site status/prevent site failure
- Implemented dashboard to depict higher level traffic flow and map deficiencies to network deficiencies
  - HTML, CSS, JS, AJAX on the Front end
  - Node/Express JS on the Backend, along with Python Flask to run the server and export API data

Research   **Accenture Supplier Risk Platform**   *Developer*   January 2018-May 2018

- Develop on behalf of Accenture for a Supplier Risk Management platform using the blockchain
- Communicate with Accenture consultants weekly to present findings and discuss concerns
- Prototyped how software will look/function

Full-Stack Projects:

- Self taught HTML/CSS as well as Bootstrap by developing static web pages and dashboards
- Incorporated JS, jQuery, and AJAX into websites by incrementally adding functionality, API's, and animations
- Learned backend through project using Node.js/Express.js (Udemy)

C++ Projects:

Boggle Solver

- Created a program that solves a boggle board of any given letter combination using the C++ language
- Implemented a Trie data structure that stores a lexicon of all "legal" words used in a boggle game for points
- Based on given letter set, walks through all combinations of letters to formulate all words to be used to gain points

Guitar String Simulator

- Simulates the sounds made by plucking a guitar string using the Karplus-Strong Algorithm
- Program outputs a sound data file that has the given frequencies and associated time values
- Data file can be converted to a wave file using external software

IOS Projects:

Pitch Perfect

- Used Xcode to build an IOS app that records user audio and then manipulates it to several different voice options
- Application can be used on all IOS devices that run IOS 11

Technical Skills:

- Beginner proficiency with IOS development using Swift
- Beginner proficiency with Android development using Android Studio
- Beginner proficiency with Node.js, Express.js
- Intermediate proficiency with Java, JavaScript, HTML, CSS, Bootstrap, jQuery, AJAX
- Advanced Proficiency with C++ and the STL

Leadership:

Muslim Students Association   Vice President/Secretary   Spring 2017 Present

National Association of Black Engineers   Fall 2016 - Present