Brandon Hawi

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Education

University of California, Irvine (March 2020)   **GPA: 3.28**
B.S., Computer Science and Engineering
College of the Canyons (June 2016)
A.S., Mathematics
Obtained an Associate of Science Degree in Mathematics with honors while concurrently attending high school.

Professional Experience

Skyworks Solutions, Inc. (June 2019 - Present)
Software Engineer Intern (Wafer Foundry Engineering)
– Developing custom automation solutions to decrease cycle time of tapeout production
– Implemented best practices in the position such as Kanban, Agile epics and stories, and CI/CD to improve code quality and workflow
– Maintaining a full stack web application and RESTful API that utilize ASP.NET Core, MVC, Entity Framework Core, and C#
– Improved design efficiency by 80% by writing a shell script automation

Axxiom Data, Inc. (May 2017 - September 2017)
Software Intern
– Developed new features for Axxiom's content management system using PHP
– Improved product creation speed by 180 times by implementing an automation solution using Python
– Improved development time by introducing Git and leveraging its use

Projects

Yelp Clone (2019): Link
– Designed a full-stack application that replicates Yelp for campgrounds
– Implemented using MongoDB, Express.js, and Node.js
– Features authentication, sessions, flash messages, and other features using various JavaScript packages

Car to Car Network (2019)
– Creating a Car to Car network proof of concept using Arduinos, Zigbees, and RC cars
– Writing a hardware abstraction layer to the Ardunio GPIO in C++ to make it easier to create the network
– Following the IEEE 802.11p standard to synthesize a high quality end product

Pure Lisp Interpreter (2019)
– Recreated the Pure Lisp interpreter using Pure Lisp (the eval() function)
– Implemented dynamic typing using a global association list

SystemVerilog RISC-V Processor (2019)
– Designed a 5-stage pipelined processor in SystemVerilog
– Reworked the design code to synthesize a 260 MHz processor
– Utilized Git version control to maintain and compare the pipelined and single-cycle design syntheses

Python SoundCloud Scraper (2019)
– Created and scheduled a CRON job to run a Python script to scrape the SoundCloud website
– Utilized the Twilio API to send an SMS to myself whenever certain artists' uploaded new music

EthicsViz (2018): Link
– Worked with Professor Matthew Bietz at the University of California, Irvine to develop a system to analyze users' online data
– Utilized the JavaScript library D3.js for data-driven documents
– Sponsored by the National Science Foundation to investigate pervasive data ethics

Other Experience

SD Hacks 2019 - Spotify Mood Ring: Link
– Designed a web application using Node.js, Express.js, EJS, and Bootstrap 4
– Application consumes the Spotify API and requests the user's top songs, related artists, and acoustic information for the songs
– Created a display page which plots the user's top songs using Chart.js according to danceability, valence, and popularity

UCI Blockathon 2018
– Engaged in multiple workshops setting up and using blockchain platforms presented by companies such as nem, Hyperledger, and ConsenSys

Engineering Conference UCI 2019 - Published Paper: Link
Project Manager, Design Lead
– Led a team in researching and compiling a 41 page research report on the implementation of an automated greenhouse
– Researched and described a convolutional neural network that would increase crop yield every iteration
– Won the conference and had the report published by the University of California, Irvine

Kappa Sigma Fraternity
Vice President, Treasurer, Website Designer, Recruitment Chair
– Organized biannual recruitment for three years
– Managed a $150,000 yearly budget
– Designed the organization's website using HTML, CSS, and JavaScript

Technical Skills

Languages: JavaScript, Python, Perl, Java, SystemVerilog, Bash, HTML, CSS, C, C++, C#, SQL, LaTeX
Tools: Node.js, Express.js, MongoDB, Unix, Linux, Xilinx, VHDL, MATLAB, Mathematica, ASP.NET