

Brandon Hawi

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GitHub: Portfolio

Education

University of California, Irvine (March 2020)

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 - Present)

Software Engineer Intern (Wafer Foundry Engineering)

- Developing custom automation solutions to decrease cycle time of tapeout production
- Maintaining a full stack web application that uses ASP.NET and C# as a front end and Microsoft SQL Express and Python as a back end
- Wrote a shell script automation that improved design efficiency by 80%

Axxiom Data, Inc. (May - September 2017)

Software Intern

- Developed new features for Axxiom's content management system using PHP
- Implemented an automation solution using Python to make the product creation process 180 times faster
- Introduced Git to Axxiom and improved development time by leveraging its use

Projects

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

Pure Lisp Interpreter (2019)

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

EthicsViz (2018)

- Worked with a researcher on the University of California, Irvine campus to develop a system to analyze users' online data
- Utilized the JavaScript library D3.js for data-driven documents
- System was presented by the researcher at a data conference on the University of California, Irvine campus

Other Experience

Engineering Conference UCI

Project Manager, Design Lead

- Led a team in researching and compiling a 41 page research report on the implementation of a machine learning artificial intelligence
- 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

Relevant Coursework

- Three courses (one year) of Python coursework
- Three courses (one year) utilizing Unix server scripting
- One course in Databases utilizing SQL
- One semester of Proficiency in Microsoft Programs using VBA

Technical Skills

Languages

Python, JavaScript, Node.js, HTML, CSS, Java, C, C++, C#, SQL, L^AT_EX

Tools

Unix, Linux, Xilinx, VHDL, MATLAB, Mathematica, ASP.NET