Brandon Hawi

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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 (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 the Git VCS to Axxiom and improved development time by leveraging its use

Projects

Python SoundCloud Scraper (2019)

Wrote a Python script that scraped SoundCloud's website and checked specific artists' profiles occasionally for new music uploads. I would manually update the list of artists and the script would send me a text using an API called Twilio.

Pure Lisp Interpreter (2019)

Wrote the evaluation function for Pure Lisp using Pure Lisp. This required recursion and the use of a global association list to create the functionality of dynamic typing that is used in Lisp and many scripting languages today.

EthicsViz (2018)

Worked with a researcher on the University of California, Irvine campus to develop a system that analyzed user's online data using platforms such as Google History, Spotify, and Google Maps. The system's goal was to present interesting correlations using users' online "footprint". The system used D3.js, a JavaScript library for data-driven documents.

Other Experience

Engineering Conference UCI

Project Manager, Design Lead

Led a team in researching and compiling a 41 page research report detailing the implementation of an autonomous vertical farm that utilized an evolutionary algorithm and a convolutional neural network to improve biomass yield every iteration. The research report was published by the University of California, Irvine and can be found on their eScholarship website.

Kappa Sigma Fraternity

Treasurer, Website Designer, Recruitment Chair

Organized biannual recruitment for three years, managed a yearly $150,000 yearly budget, and designed the chapter's website using HTML, CSS, and JavaScript.

Technical Skills

Languages

JavaScript, Node.js, Python, C, C++, C#, Java, SQL, HTML, CSS, LaTeX

Tools

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