

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

Axxiom Data, Inc. (May - September 2017)

Software Intern

Worked directly under the CEO of Axxiom Data to help develop new solutions within Axxiom's content management system, upkeep it's current websites, and prepare the system for future development.

Invisible Touch Events (January - September 2017)

Light/Audio Technician

Worked as a technician for an event planning company based in the Tustin area and helped research new lighting/audio solutions for events, troubleshoot electrical issues on the fly, and develop connections with clients to maintain future business.

Projects

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".

Discrete Cosine Transform VHDL (2018)

Designed and simulated a Discrete Cosine Transform circuit using VHDL and Xilinx. The chip was designed to be used for video compression.

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.

Kappa Sigma Fraternity

Ritual, Treasurer, Website Designer, Recruitment Chair

Organized biannual recruitment for three years, managed a yearly \$200,000 yearly budget, and designed the chapter's website.

Technical Skills

Languages

C, C++, Java, SQL, HTML, CSS, JavaScript, Lisp, Prolog, Python, \LaTeX

Tools

Linux, Xilinx, VHDL, MATLAB, Mathematica