

# 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.

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## Professional Experience

Skyworks Solutions, Inc. (June - 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 Continuous Integration to improve code quality and workflow
- Maintaining a full stack web application that utilizes ASP.NET Core, MVC, Entity Framework Core, and C#
- Improved design efficiency by 80% by writing a shell script automation

Axxiom Data, Inc. (May - 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

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## 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

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): [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

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## Other Experience

Engineering Conference UCI: [Link](#)

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

UCI Blockathon

- Engaged in multiple workshops setting up and using blockchain platforms presented by companies such as nem, Hyperledger, and ConsenSys

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## 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