

# Brandon Hawi

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## Education

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### 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

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### 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

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### 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

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### 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

## Technical Skills

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### Languages

Python, JavaScript, Node.js, HTML, CSS, Java, C, C++, C#, SQL, L<sup>A</sup>T<sub>E</sub>X

### Tools

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