

# Avi Kaufman

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Honors- Iowa Scholars Award, Margo and Don Blumenthal Scholarship, Wert Summer Research Grant, Dean's List, and President's List 2022

## Education

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**BS, Computer Science**

**BS, Physics**

Anticipated May 2025

The University of Iowa, Iowa City, IA

Current University of Iowa GPA: 4.02/4.00

## Work Experience

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Student Researcher – Iowa Physics Department

January 2022 -Present

- Worked with the DUNE project to develop a neural network that reconstructs neutrino interactions
- Collaborated in an interdisciplinary team to analyze data using Python, Linux to identify algorithmic weaknesses within our Neural Network.
- Wrote code in Jupyter Notebook using Pytorch libraries

Texas Roadhouse Waiter

December 2020 -June 2021

- Managed the responsibilities of being a Host, Busser, and Waiter to 3+ tables simultaneously.
- Balanced the demands of the customer and employer

## Class Experience

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Computer Science 1 & 2

August 2021- Present

- Designed and Implemented Data Structures and Algorithms
- Analyzed and improved the effectiveness and efficiency of various programs
- Used GitHub to download and upload assignments

Computer Organization

August 2022- Present

- Studied the fundamental organization and structure of computer systems
- Covered data representation, machine language, processor architecture, memory hierarchy, and virtual memory

## Project Experience

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Avi-Kaufman.com

September 2022-Present

- Designed and constructed personal website from scratch using HTML and CSS
- Displays work done for research and personal projects

Jarvis

January 2022 -Present

- Personal Project attempting to create a home assistant using Object Detection, Chatbot AI, and Arduinos.

## Leadership Experience

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Temple Youth Group President

August 2019 – 2021

- Built strong relationships with youth group members and staff to create a welcoming environment
- Planned a schedule and organized social action events for 20+ members

## Skills

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Programming – Python, Java, C, C++, Linux, HTML, CSS, Mathematica, GitHub, Machine Learning