

# Aidan Loughney

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## Education

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**University of Michigan**, Ann Arbor, MI

GPA: 3.47/4.00

Bachelor of Science in Engineering in Computer Science

May 2023

**Relevant Coursework:** Data Structures and Algorithms, Web Systems, Software Engineering, User Interface Development, (F22) Intro to Computer Security, (F22) Intro to AI

**Technical Skills:** C/C++, Python, JavaScript, Java, SQL, Flask, React.js, jQuery, HTML, CSS, Git, Bash Scripting

## Work Experience

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### Amazon

Seattle, WA

*Software Development Engineer Intern*

May 2022 – August 2022

- Utilized Java, testing frameworks such as Junit and Mockito, and Amazon S3 to develop a proof-of-concept intern project to onboard the GetObjectAttributes API to use a new internal S3 tool to access S3 object fields
- Worked on the S3 Object Integrity team whose domain is adding features ensuring the integrity of each object stored in S3
- Presented results and work to related S3 teams and other interns

## Extracurricular Experience

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### Tech 4 Social Good

Ann Arbor, MI

*Software Developer*

September 2021 – Present

- Collaborated with a team of 6 other student developers and designers to create a volunteer dashboard for the Lunar Doula Collective which provides support to those undergoing miscarriage, stillbirth, or pregnancy termination in Southeast Michigan
- Built a backend made up of a RESTful API and a PostgreSQL database using Python and Django

### HackBlue

Ann Arbor, MI

*Member*

October 2019 – January 2022

*Program Lead*

January 2020 – December 2020

- Organized one of the programs offering a basic introduction to CS concepts for underprivileged middle schoolers
- Facilitated and led weekly sessions using block-based programming and games to teach basic cryptography, control flow, and functions to students
- Designed curriculum that introduced CS concepts to 40+ middle school and high school students

### Michigan Data Science Team

Ann Arbor, MI

*Election Forecast Team Member*

September 2020 – November 2020

- Collaborated with five Computer Science and Data Science students to create an Election Forecast Model for the 2020 Presidential Election
- Adapted a model taking into account expanded mail voting and early voting and created multiple visualizations to analyze our findings using Python, Pandas, and NumPy
- The model correctly predicted 48 of 50 states and DC

## Project Experience

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### Wikipedia Search Engine, School Project

November 2021 – December 2021

- Built a scalable search engine that returned Wikipedia articles based on PageRank scores utilizing Hadoop and Map Reduce with Python
- Developed a user interface to display the search results and implemented a RESTful API index server with Flask

### Instagram Web Clone, School Project

September 2021 – October 2021

- Built a social networking web application similar to Instagram with client-side and server-side dynamic pages
- Developed the frontend using React.js and the backend/REST API with Python and its Flask and SQLite libraries