Aarushi Singh

50799 Scarborough Rd | Canton, MI 48188

aarushsi@umich.edu | 734-802-9808 | linkedin.com/in/aarushi-singh03

Education

University of Michigan, *College of Engineering*   **Ann Arbor, MI**
Bachelor of Science in Engineering in Computer Science   Dec 2025
GPA: 3.724/4.0
Course Highlights: Data Structures & Algorithms, Programming and Intro Data Structures, Discrete Mathematics, Web Design, Development, and Accessibility

Skills

Languages**:** C++, Python, HTML, CSS, Javascript, Matlab
Technologies: Visual Studio, Git
Skills: Web Development

Work Experience

University of Michigan, Aether Research   **Ann Arbor, MI**
Assistant Researcher   May 2023- Aug. 2023
- Collaborated with project team on Aether project, an open source model of the upper atmosphere funded by NASA
- Utilized C++ programming skills to contribute to the development of the Aether model
- Optimized model performance by developing and implementing algorithms to calculate atmospheric composition, including measurements for oxygen and nitrogen concentrations

MCWT Summer Coding Camp   **Oakland, MI**
Camp Assistant   July 2023
- Guided 5th and 6th graders to learn website development using HTML and CSS as well as provided guidance on block coding robots
- Facilitated presentations of websites created by campers at the end of camp
- Responsible for managing a sizable class and maintaining order among campers

Project Experience

University of Michigan, Launching Weather Balloon   **Ann Arbor, MI**
Intro to Climate & Space   January 2023- April 2023
- Programmed in Arduino with project team to read in data from weather balloon's launch
- Assembled a circuit board with seven sensors, including a temperature and UV sensor to record data during flight
- Led the design of a custom PCB board on Altium
- Collaborated with 3 team members to manufacture a structure to hold the PCB and withstand harsh conditions

Machine Learning: Identifying Post Subjects   **Ann Arbor, MI**
Programming and Intro Data Structure   March 2023- April 2023
- Developed a machine learning classifier for text categorization using C++
- Applied natural language processing techniques to identify subject of Piazza posts accurately
- Worked closely with project partner to brainstorm and implement strategies aimed at enhancing classifier accuracy

Activities

Michigan Data Science Team   *September 2023- Present*
Michigan Hackers   *September 2023- Present*
Society of Women Engineers   *January 2023- Present*