Aarushi Singh

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Education

University of Michigan **December 2025**

Bachelor of Science in Engineering, Computer Science *Ann Arbor, MI*

- GPA: 3.74/4.00 | 2022-2024 Dean's List, 2022-2024 University Honors
- Coursework: Advanced Data Structures & Algorithms, Foundations of Computer Science, Data Oriented Programming, Web Systems, Computer Vision, Discrete Math, Intro Computer Organization, Databases
- Activities/Societies: Society of Women Engineers (SWE), VOID Tech

Technical Skills

Languages: C/C++, Python, JavaScript, Java, HTML/CSS, MATLAB
Tools/Frameworks: Git, Azure, React Native, Visual Studio, Excel, Microsoft Office

Work Experience

Dow Inc. **May 2024 - Present**

Software Engineering Intern *Midland, MI*

- Developed a web application using JavaScript, HTML, and CSS, enhancing operational efficiency for over 100 team members by improving user comprehension of complex calculations
- Implemented code reviews and documented Dow's custom SAP logic for cycle counting, ensuring clean, well-architected systems within the enterprise team
- Documented GenAI technologies, contributing to innovative solutions and enhancing processes for 300+ employees

University of Michigan, Climate and Space Department **May 2023 - August 2023**

Research Assistant *Ann Arbor, MI*

- Worked in a cross-functional team on the Aether project, an open-source model of the upper atmosphere funded by NASA
- Developed and implemented complex algorithms in C++ for the Aether project, impacting over 20 research initiatives worldwide
- Optimized model performance with a 95% precision rate in calculating atmospheric composition.

Projects

VoidTech Project Team **January 2024 - Present**

ParkSwift | *JavaScript*

- Collaborated in a team of five developers to create an innovative app using React for renting open parking spaces, enhancing urban mobility and providing a convenient solution for drivers seeking parking
- Took the lead in implementing a map feature using an API, and designed various user interface screens in Node.js, ensuring a seamless and user-friendly experience for app users

MHacks Hackathon Project **November 2023**

StoryGen | *JavaScript*

- Engineered an interactive reading app with a team using Node.js, React Native, and ChatGPT API, enabling personalized story creation and slow-paced story generation for children
- Enhanced user experience and engagement by integrating AI for read-aloud features and NLP-based practice

Data Structures Project **October 2023**

Zoo Route Planning | *C++*

- Developed a sophisticated Traveling Salesman Problem (TSP) solver in C++, employing advanced algorithms and optimization techniques to achieve efficient route planning and significantly enhance computational performance

Leadership

Society of Women Engineers **April 2024 – Present**

SWE CAR Administrator — Officer

- Coordinate corporate information sessions for SWE members, handling company sign-ups, tracking participation, and booking venues to ensure smooth execution and valuable networking
- Plan and execute the annual SWE banquet for over 200 members by overseeing all logistics and details
- Lead a subcommittee for the annual SWE banquet, delegating tasks and collaborating with non-technical teams to ensure comprehensive event planning and execution