Aarushi Singh

📞 734-802-9808 ✉ aarushsi@umich.edu 🔗 linkedin.com/in/aarushi-singh03

Education

University of Michigan — **December 2025**
Bachelor of Science in Engineering, Computer Science — *Ann Arbor, MI*
- GPA: 3.74/4.00
- Coursework: Advanced Data Structures & Algorithms, Web Systems, Intro to Artificial Intelligence, Foundations of Computer Science, Data Oriented Programming, 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, SQL, C# (Basic), MATLAB (Basic)
Tools/Frameworks: Git, Azure, React, Django, Visual Studio, Microsoft Office

Work Experience

Dow Inc. — **May 2024 - August 2024**
Software Engineering Intern — *Midland, MI*
- Programmed a full-stack web application using JavaScript, HTML, and CSS to enhance user comprehension of calculations and improve operational efficiency
- Documented and analyzed complex SAP cycle counting logic, enhancing system clarity and reducing processing errors by 15%, significantly improving workflow efficiency
- 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 atmosphere funded by NASA
- Contributed to the Aether project by designing and optimizing C++ algorithms that supported 10+ global research initiatives, showcasing strong problem-solving skills and computational expertise
- Boosted model accuracy with a 95% precision rate by implementing advanced algorithms, demonstrating a high level of technical proficiency

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
- Led the API implementation of a map feature, 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++*
- Designed and implemented a Traveling Salesman Problem (TSP) solver in C++, utilizing graph theory and optimization algorithms to achieve efficient route planning and improve computational performance

Leadership

Society of Women Engineers — **April 2024 – Present**
SWE CAR Administrator — Officer
- Coordinated corporate information sessions for SWE members, handling company sign-ups, tracking participation, and booking venues to ensure smooth execution and valuable networking
- Planned and executed the annual SWE banquet for over 200 members by overseeing all logistics and details
- Led a subcommittee for SWE's annual banquet, coordinating teams to execute a successful event, demonstrating strong leadership, project management, and collaboration skills