Mehul Maheshwari

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EDUCATION

University of California, San Diego - *M.S. Computer Science with a Specialization in Artificial Intelligence*
Sep 2024 - May 2026 (expected)

University of Wisconsin, Madison - *B.S. Computer Science with a Comprehensive Honors, Minor in Mathematics*
Sep 2020 - May 2024

- Computer Science courses: Algorithms, Software Eng., User Interfaces, Databases, Artificial Neural Networks, Computer Graphics, Artificial Intelligence, Human-Computer Interaction, Programming I-III, Computer Eng., Machine Org. Programming, Mobile Applications, Cryptography, Applied Stats for Eng.
- Mathematics courses: Numerical Analysis, Numerical Methods, Discrete Math, Linear Algebra, Differential Equations, Calc I-III, Theory of Proofs

RESEARCH

Diversity Science Research Platform, University of Wisconsin-Madison,   **2023-Present**
under Professor Jacob Thebault-Spieker

- Created a full-stack platform for researchers to investigate rating disparities within gig economies
- Recieved funding by the Institute for Diversity Science

Enhancing Spatial Perception and Presence in Immersive Virtual Environments,   **2018-2019**
University of Minnesota, under Professor Victoria Interrante

- Awarded by the Minnesota Department of Education: Scholars of Distinction - Meritorious
- Spearheaded project proposal, *The Field of View's Associations on Cybersickness in Virtual Reality*, which investigated the association between field-of-view and cybersickness with passive control.
- Collaborated with graduate students on *Spatial Perception in Immersive Virtual Environments*

EXPERIENCE

Technology Development Intern at OPTUM through United Health Group   **2022-2023**

- Worked to automate reusable in-house de-identification processes, eliminating the need for 3rd party software such as Informatica
- Automated backlog reporting data analysis with Java, cutting down on reporting time
- Created a website providing stakeholders with relevant information and updates about products
- Assisted in creating AI that helps diagnose patients with appropriate illnesses

Injection Molding Finisher at Protolabs, Plymouth, MN   **2021**

- Finished parts for quality inspection and shipping
- Problem-solved handling issues and Injection molding machine failures

Instructor at STEM Builders, Plymouth, MN   **2016-2020**

- Taught app creation with MIT App Inventor and Java
- Taught high school mathematics and robotics to kids in grades 8-11

PROJECTS - **Projects can be found on my resume page:** *https://mehulmaheshwari.com/resume*

- Created and optimized a CNN model to help users learn sign language using transfer learning with ResNet50
- Made RNN's to predict time series for text sequences (NLP)
- Created a website for Madtown Bhangra which is responsible for attracting sponsors and creating revenue: https://mahesmeh001.github.io/madtown-website/
- Created a website for the Badminton Club to streamline registration and centralize important information: https://bit.ly/badminton_club
- Memory Lane: A social media application that stores memories based on location (on my website)
- Coded a personal website for my hobbies and interests: https://bit.ly/mehul_maheshwari
- Worked in a team to create a full stack office hours application reducing wait times for students
- Sorting Visualizer to gain familiarity using React: https://mahesmeh001.github.io/sorting_visualizer/
- Team Projects in Java. e.g. Wikipedia Search Game, Squirrel Explorer, Hue Finder, Flight Explorer

SKILLS

- Proficient with Next.js, React, Django, Java, Python, Pytorch, Tensorflow, HTML, CSS, JavaScript, Version Control, Matlab, Rally, Power BI
- Familiar with C++, C, GLSL, Unity / Unity 3D, Docker, Bash, Powershell, webGL, Jira

EXTRACURRICULARS / LEADERSHIP

- Madtown Bhangra - Marketing Director   **2023-Present**
- Badminton Club - Social Media and Communications Chair   **2020-2023**
- Transcend UW - CS / Business competition   **2020-2022**
- Coding For Good - Transitioning to Drupal for Dane County Timebank   **2020-2021**