

SHIVANG MEHTA

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EDUCATION

University of Massachusetts Amherst
Manning College of Information & Computer Sciences
B.S. in Computer Science

Exp. Graduation May 2025

GPA: 3.1

Coursework: Software Engineering, Data Structures (JavaScript), Algorithms, Programming Methodology, Object Oriented Programming, Web Programming, Cloud Computing, Game Programming, Social Issues in Computing, Operating Systems, Discrete Mathematics, Computer Systems Principles, Statistics and Reasoning

PROJECTS

PORTFOLIO: <https://mehtapvt010.github.io/Portfolio/>

Website For a Local Car Detailing Business

August 2024

<https://mehtapvt010.github.io/Affordable-Mobile-Detailing-Website/>

- Developed a fully responsive website for a local car detailing company, leveraging HTML, CSS, and JavaScript to enhance their online presence.
- Optimized the user interface and experience to achieve a 40% increase in customer inquiries, contributing to higher engagement and conversion rates.
- Utilized SEO best practices and analytics tools to drive organic traffic, boosting the company's visibility and attracting new customers.

Sorting Algorithm Visualizer (Python)

September 2024

<https://github.com/mehtapvt010/Sorting-Algorithm-Visualizer->

- Developed a dynamic sorting algorithm visualizer in Python, leveraging graphical representations with colored rectangles to illustrate sorting processes, enhancing comprehension of algorithm behaviors and efficiency.
- Implemented multiple sorting algorithms, including Bubble Sort, Merge Sort, and Quick Sort, allowing for real-time comparison and performance analysis through adjustable parameters and visual feedback.
- Optimized code for performance and scalability, achieving a 30% increase in rendering speed and accommodating datasets of up to 1k+ elements for comprehensive algorithm evaluation.

Flappy Bird Game with AI Player Improvement

September 2024

- Engineered a Flappy Bird game clone from the ground up using Pygame, optimizing game mechanics and UI for fluid gameplay, achieving a consistent 60 FPS performance.
- Developed an adaptive AI using Python's NEAT library, driving the system to autonomously play the game and evolve its strategies over multiple generations, improving gameplay success rate by over 80%.
- Streamlined performance tracking and AI adjustments, improving learning efficiency and speeding up generation cycles by 25%.

SKILLS

Front-End: HTML, CSS, JavaScript, React, WordPress

Back-End: Node, Express, PostgreSQL, REST API

Accessory: Python, Java, C++, Data Structures and Algorithms, Git, Teamwork, Leadership, Problem Solving, Troubleshooting and Debugging

EXPERIENCE

Computer Lab Assistant

Berkshire Community College | January 2022-May 2023

- Assist students, faculty, and staff with computer, software, and peripheral issues, and provide guidance on lab equipment and educational software.
- Monitor and report equipment issues to IT.
- Perform routine maintenance, including updates and virus scans.

AWARDS AND LEADERSHIP

- Dean's List (Fall 2021 to Spring 2023) (Berkshire Community College)
- Richard and Susan Cetti Scholarship for Excellence in STEM 2022 (Berkshire Community College)
- Gary Lamoureaux Scholarship 2022 (Berkshire Community College)

