Shivang Patel

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EDUCATION

University of Massachusetts Lowell   Lowell, MA
Starting Master of Computer Science   Fall 2022

Bachelor of Science in Computer Science   Fall 2021
Minor in Mathematics
Related Coursework: Data structures in C/C++, Computer Organization and Assembly Language, Organization of Programming Language, Foundations of Computer Science, GUI in Web Development, Machine Learning, Analysis of Algorithms, Applied statistics, Mobile Robotics II - Advanced Topics in Robotics

Middlesex Community College   Bedford, MA
Coursework toward Associate in Computer Science   September 2017 – December 2018

ACADEMIC PROJECTS

Mobile robot (C)   Fall 2021
- Built a ground mobile robot that used camera vision to detect the balloon on the camera frame and attached a servo motor operated arm to pop the balloons.
- The robot detects a certain color of balloon depending on human input using a digital sensor. After receiving input from the user, the robot approaches the balloon and pops it with its arm.
- Used KIPR Wombat Controller that uses the KISS Web IDE to connect the sensor.

PERSONAL PROJECTS

Sorting visualizer (HTML, JavaScript, CSS, React)   Spring 2021
- Developed a React-based sorting visualizer web application to help in the visualization of various sorting algorithms inside the user interface.
- The vertical line starts with randomly arranged to being sorted by ascending order.
- Sorting algorithms visualized are Merge sort, quick sort, bubble sort, Heap sort, insertion sort, selection sort.

Pokémon card web application (HTML, JavaScript, CSS)   Summer 2021
- Created a web application that shows the Pokémon on a page using two API.
- Used Semantic UI to generate the card styling
- Fetched the data from the API and used DOM manipulation to create the individual card.
- Every Pokémon has a card-like styling and it displays metadata.

SKILLS

Programming Language: Fluent with C, C++, Familiar with Java, MySQL, HTML5, CSS3, Python and JavaScript
Operating System: Unix/Linux, Windows
Development Software: Microsoft Visual Studio, GitHub, Atom, Jupyter Notebook
Other: Problem Solving, Self-management, Positive attitude, Enthusiastic to learn

INTRESTS

Learning about new technology , Interplanetary space, Self-improvement