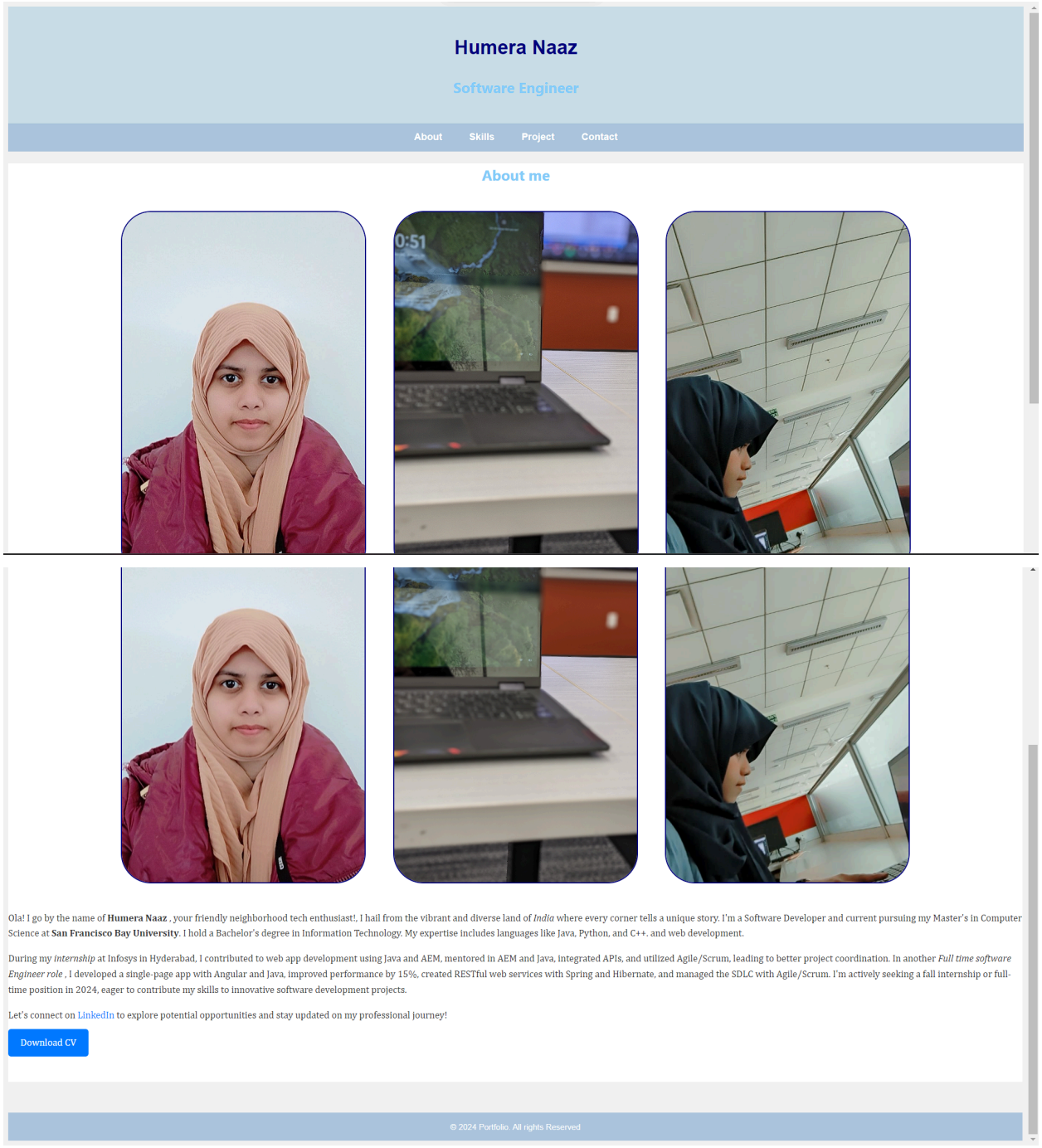
Screenshots:



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Humera Naaz

Software Engineer

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My skills & Experience

My creative skills

Embrace a dynamic tech journey with a diverse skill set that's not just about coding prowess but a symphony of talents. From crafting sleek web experiences to diving into the realms of robotics and computer vision magic, this toolkit isn't just about skills; it's a gateway to a universe of innovation. In the ever-evolving tech sphere, this versatility isn't just a résumé booster – it's your secret sauce for navigating the thrilling twists and turns of the digital frontier.

Programming Languages:

- C/C++
- Embedded C
- Java
- Python
- Java Spring Boot

Web Languages:

1. HTML
2. CSS
3. JavaScript
4. Angular
5. ReactJS

Others:

- SQL
- Robot Operating System (ROS)
- Image processing (OpenCV)
- Adobe Experience Manager (AEM)

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Humera Naaz

Software Engineer

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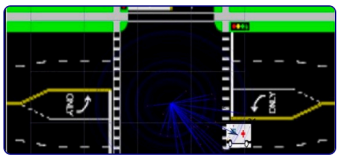
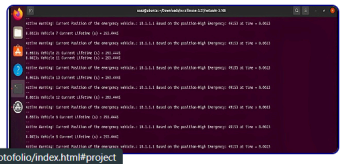
Projects



Simulation of Connecting with clients



Vehicular Ad-Hoc Network (VANET) System for Emergency Medical Services (EMS)- 2022

Description: Designed and implemented a sophisticated VANET system aimed at optimizing Emergency Medical Services (EMS) and ambulance assistance.

Objective: Enhance communication between emergency vehicles by transmitting automatic alerts enriched with precise *Global Positioning System (GPS)* coordinates and optimal route details in real-time.

Role: Led the development and implementation process, collaborating closely with a multidisciplinary team of engineers and stakeholders.

Achievements:

- Successfully deployed TCP/IP server-client connections for real-time data transfer within a 5-kilometer radius, signaling approaching ambulances to clear the way.
- Improved emergency response capabilities by enabling swift and efficient coordination among emergency vehicles during critical situations.

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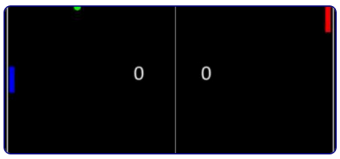
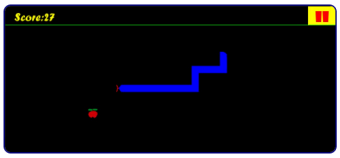


Ping Pong



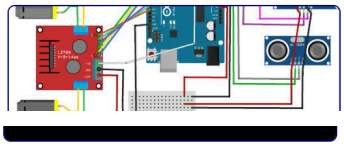
Snake game

Python Game Development with Pygame -2020

In crafting both the ***Snake*** and ***Ping-Pong*** games, we leveraged Python's Pygame library and Angular framework.

Utilizing ***Pygame***, we orchestrated the game loop to update states, manage user input, and render graphics seamlessly. By implementing collision detection algorithms, we ensured accurate interactions between game elements.

With ***Angular***, we adopted a component-based approach, utilizing MVC architecture to create modular game components. The game loop in ***Angular*** facilitated smooth rendering and responsive user controls, enhancing the gaming experience. Through these methodologies, we delivered captivating and dynamic gameplay experiences, showcasing proficiency in both ***Pygame*** and ***Angular*** frameworks in underpinning game development.



Snake game

Autonomous Maze-Solving Robot Development-2019

Developed an autonomous maze-solving robot using Arduino and ultrasonic sensors, showcasing my expertise in robotics, sensor interfacing, and algorithm design. The robot is capable of detecting echoes from the sensors and autonomously navigating its way to the exit of the maze. Additionally, we incorporated Depth-First Search (DFS) algorithms to optimize the robot's pathfinding capabilities.

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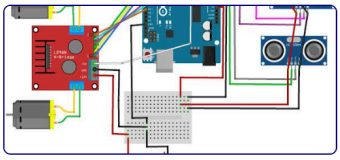
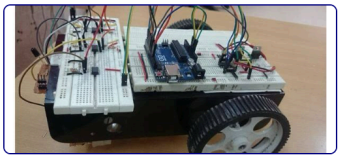
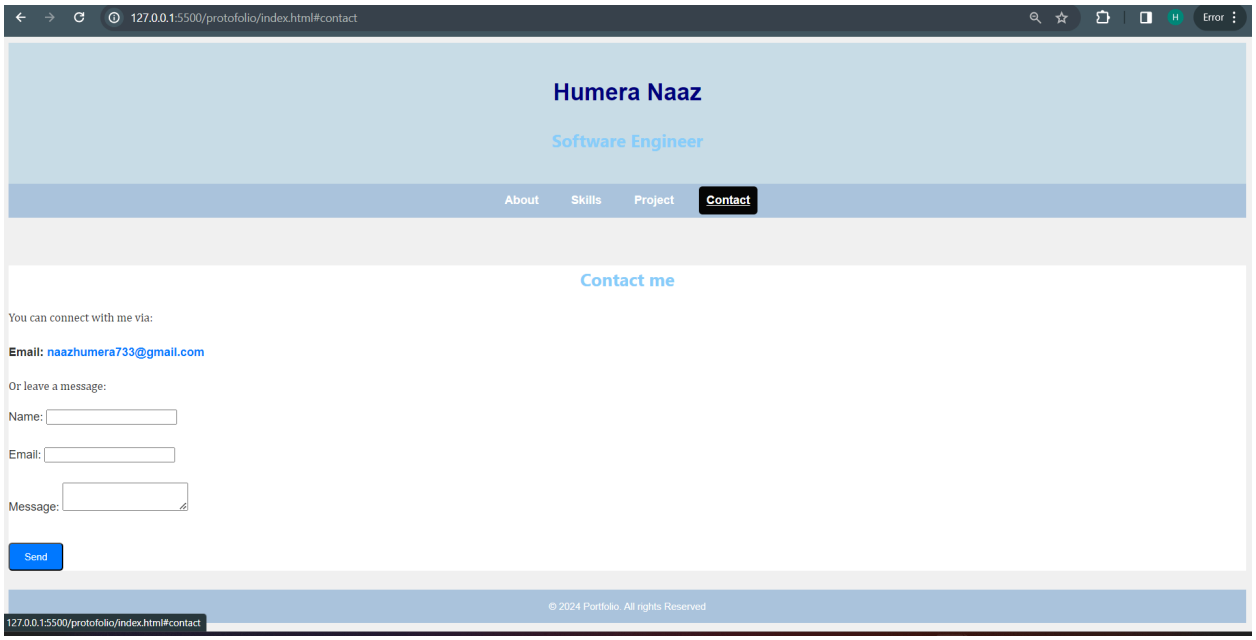


Connecting Sensors



Deployment of Bot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Project
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