ASHUTOSH SONI

Bhopal, MadhyaPradesh, India

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Education

VIT Bhopal University **09/2022 - Ongoing**
Bachelor of Technology in Computer Science, 9.02 CGPA *Bhopal, Madhya Pradesh*

St.Xavier's School **07/2019 - 07/2021**
Higher Secondary Certificate, 84.6 Percentage *Bhopal, Madhya Pradesh*

St.Xavier's School **05/2009 - 05/2019**
Secondary School Certificate, 91 Percentage *Bhopal, Madhya Pradesh*

Projects

PATH FINDING VISUALIZER | *React.js, HTML, CSS, and JavaScript* **January 2024**

- Made for better understanding of how path finding algorithms work.
- A web application using React to visually demonstrate various path-finding algorithms such as Breadth First Search (BFS), Depth First Search (DFS), Dijkstra's Algorithm, and A* Algorithm.
- The app utilizes CSS animations and a grid-based interface, with a green box representing the starting node and a red box representing the end node.
- Implemented an interactive user interface that allows users to place walls and weights on the grid to simulate obstacles and different terrains.
- Utilized React's state management to handle dynamic changes in the grid and algorithm parameters.
- Included detailed documentation and tooltips within the app to educate users on the functionality and purpose of each algorithms.

AI Image Generator | *HTML, Vanilla CSS, Javascript, ReactJS, Stability AI API, Axios* **March 2024**

- Created an innovative AI Image Generator that transforms user input into high-quality images, integrating advanced image generation technology.
- Utilized HTML, Vanilla CSS, and JavaScript to build a dynamic and responsive user interface for seamless interaction.
- Implemented input handling, API requests, dynamic image rendering and loading state management.
- Integrated Stability AI API to generate images based on text prompts.
- Handled asynchronous API requests with Axios, ensuring smooth user experience.
- Used ReactJS to manage the state and render components efficiently, enhancing the overall performance of the application.
- Incorporated error handling and user feedback mechanisms to improve usability and reliability.

Technical Skills

Languages: C++, Python, TypeScript, JavaScript, HTML/CSS, SQL
Developer Tools: Git, MongoDB, Firebase, MySQL
Technologies/Frameworks: React.js, Express.js, Node.js, MongoDB, Tailwind CSS
Data Structures and Algorithms

Achievements and Extra Curricular

- Secured top 9 position out of 201 teams at Quasar 2.0 hackathon, organised by 47Billion and 7Seers team.
- Solved 150+ problems on different platforms.
- Member of Open-Source Club VIT (PR and OutReach Member).
- Member of D2C Igniters Club VIT (Core Technical Team Member).
- Completed The Bits and Bytes of Computer Networking course on Coursera.

Relevant Coursework

- Data Structures and Algorithms
- Python Programming
- Object Oriented Programming (OOPs)
- Internet and Web Programming
- Database Management System (DBMS)
- Digital Logic Design (DLD)