Mridul Roy

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Skills

Languages:
- HTML5: Expertise in creating semantic, accessible, and responsive structures.
- CSS3: Proficiency in advanced layouts (Flexbox, Grid), animations, and transitions.
- JavaScript: Basic knowledge for enhancing interactivity.

Technologies & Tools:

Testing & Accessibility Tools:
- Browser Stack: Knowledge of cross-browser testing tools to ensure compatibility.
- Accessibility Standards: Familiar with WCAG guidelines and ARIA roles for inclusive design.

Visual Development Tools:
- Prototyping Tools : Experience with prototyping tools like Figma ,Sketch or InVision to create dynamic previews and test user flows.
- Figma : Skilled in converting Figma designs into fully functional, responsive web pages with pixel-perfect accuracy.
- Responsive Design Frameworks : Experience with responsive design frameworks like Bootstrap, Foundation, Tailwind CSS or Sass CSS to ensure websites adapt seamlessly across different devices and screen sizes.

Aditional Skills

Operating System: Linux

Frontend : ReactJs

Backend : NodeJs. ExpressJs

Mobile App Development : Flutter

Framework : Django, Laravel

Static Site Generator : NextJs

Education

United International University   CGPA: 3.33/4
B.Sc. in Computer Science and Engineering
Relevant Coursework: Object Oriented Programming, Databases, Discrete Math's, Data Structures and Algorithms, Operating Systems, Computer Networks, Machine Learning, Data Mining, Advance Data Structures and Algorithms, Information Retrieval, Image Processing

Project Work

MelodyStream : Designed a web based music application for an interactive and user-friendly interface. Intuitive navigation and information architecture. Clear visual hierarchy and consistent design language. User-friendly playback controls and playlist management. Smooth transitions and animations for enhanced user experience. Intuitive interaction design for core features. **Click here for checking out live.**

BCL Landing Page : Designed a high-converting construction landing page, implementing clear calls to action, intuitive navigation, and a streamlined contact process. Prioritized user-friendly navigation and intuitive interactions to ensure optimal usability across desktop, tablet, and mobile devices. The landing page design prioritized lead generation by incorporating clear calls to action, a streamlined contact form and compelling visuals showcasing past projects. **Click here for checking out live.**

COVID-19 Information Hub : Designed a COVID-19 awareness website, prioritizing clear communication of vital information. Implemented a strong visual hierarchy using typography, whitespace, and color to guide users through key sections, including prevention tips and statistics. Focused on presenting complex data in an easily digestible format. **Click here for checking out live.**

Dynamic Route Optimization System : Applied Dijkstra's shortest path algorithm to find the route which takes the shortest time to travel from source to destination in a given road network with randomly generated traffic. Implemented methods to avoid collisions between vehicles by dynamically changing their speeds. Used C++ and OpenGL library for simulation. C++, OpenGL.

Problem Solving Skills

CodeForces : Max Rating(1749)

Activities

Competitive Programming member, UIU Computer Club.

Awards and Certificate

Professional Web Development from Creative IT Institute.
Full Stack Web Development with MERN from OSTAD.