ADITYA KUMAR

Chennai, Tamilnadu, India

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Education

Bharath Institute of Higher Education and Research   **Chennai, Tamilnadu**
Bachelor of Technology in Computer Science(cgpa:- 8.4/10)   *July 2020 - May 2024*

Skills

- **Language:** C++.
- **Database:** SQL, mongoDB.
- **Tools:** VsCode, Git, GitHub.
- **Web Technology:** HTML, CSS, JavaScript, React.js, Express.js, Node.js.
- **CourseWork:** Data Structure and Algorithm, OOPS , DataBase Management System.

Projects

SORTING VISUALIZATION   **GitHub**

- Innovated and built an interactive sorting visualization web page using **HTML, CSS,** and **JavaScript** allowing users to explore and compare 5 different sorting algorithms **Bubble Sort, Quick Sort, Merge Sort, Insertion Sort, Selection Sort**.
- Implemented and customized controls enabling users to **adjust, monitor, and manipulate** sorting speed with real-time updates, achieving up to **50% faster response times** on algorithm visualization.
- Engineered and Simplified a **user-friendly** interface, facilitating seamless interaction with over 100+ sorting steps clearly visualized, enhancing algorithm comprehension for users.
- Adaptive and streamlined sorting processes, improving rendering efficiency by 30 and ensuring smooth transitions for all algorithms, increasing user engagement.

NETFLIX-CLONE   **GitHub**

- Designed and developed a fully responsive Netflix front-end clone using **React.js** and **Firebase**, replicating the platform's UI/UX and serving over 100+ unique elements across multiple pages.
- Integrated and configured Firebase Authentication to enable secure sign-in and sign-out options, reducing login time by 25% and ensuring seamless user account management for up to 1000 users.
- Utilized and structured React.js components and state management to build and scale a flexible interface, processing real-time data and interactions with over 50% faster rendering.
- Optimized and improved the user authentication flow by leveraging Firebase services, increasing sign-in/out efficiency by 30% and safeguarding secure access control.

TO-DO LIST   **GitHub**

- Created and evolved a Robust To-Do List website using **HTML, CSS, and JavaScript,** enabling users to create, update, and delete tasks with ease.
- Implemented a Scalable real-time task management features, improving user interaction by 25% through intuitive UI elements and responsive design.
- Effected and streamlined interactive functionalities, enhancing task tracking efficiency for users, with the website supporting 50+ tasks per session seamlessly.
- Enhanced the performance of the To-Do List website, reducing load times by 20% and ensuring smooth, lag-free user experience even with multiple tasks in progress.

Coding Handles

Portfolio - Link   Leetcode - Link   GeeksForGeeks - Link   HackerRank - Link

Achievements

- Solved 400+ Questions on LeetCode.
- Achieved **5-Star** rating on HackerRank.
- Achieved Institute Rank **Top 3** on GeeksForGeeks.