ADITYA KUMAR

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EDUCATION

Bharath Institute of Higher Education and Research   May 2020 – May 2024
B.Tech in Computer Science and Engineering - **CGPA - 8.4**   *Chennai, India*

COURSEWORK / SKILLS

- Data Structures & Algorithms
- Operating Systems
- DBMS
- OOPS Concept
- Web Development

TECHNICAL SKILLS

Languages: C++, Java.
Web Technology: HTML, CSS, JavaScript, SQL.
Developer Tools: VS Code, Git, GitHub, Android Studio
Frameworks: ReactJS, NodeJS, ExpressJS

PROJECTS

NETFLIX-CLONE ↗ | React js, Bootstrap and Firebase   2024

- 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.
- Live site here

SORTING VISUALIZATION ↗ | HTML, CSS and JavaScript   2023

- 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.
- Live site here

TO-DO LIST ↗ | HTML, CSS and JavaScript   2022

- 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.
- Live site here

Coding Platforms

- **Leetcode:** Solved **400+** Problems ↗
- **GeeksforGeeks:** Solved 150+ Problems ↗
- **HackerRank:** 5-Star rating on HackerRank. ↗