Suman Sekhar Sahoo

Bachelor of Engineering, BITS Pilani

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EDUCATION

Birla Institute of Technology and Sciences Pilani, Hyderabad, India   Sep 2021 - May 2025
Computer Science Engineering (Major) | CG: 8.02

- Courses: Computer Programming, Object Oriented Programming, DBMS, Operating Systems, Theory of Computation, Machine Learning, Foundations of Data Science, Blockchain Technology

EXPERIENCE

SmartCBS   May 2023 - Aug 2023
Frontend Development Intern   *Hyderabad, India*

- Established connection with an API to fetch customer data in JSON format and used React's component-based architecture to display it.
- Used context API to manage API data in a single context provider avoiding prop drilling. Styled components using Tailwind CSS
- Technologies used: ReactJS, Context API, Tailwind CSS

PROJECTS

Multithreaded Distributed Graph Database   Oct 2023 - Nov 2023
Multithreading, Graph traversals, Operating System   *BITS Hyd*

- Simulated a Graph Database that involved Load balancer process, Primary server and 2 Secondary servers, a Cleanup process and several Client processes.
- Secondary server spawns threads to serve requests of clients. Used mutex locks to prevent simultaneous write and read or write and write.
- Implemented multithreaded graph traversal- BFS and DFS with semaphores.

Full stack website for BITS MHSG   July 2023 - Aug 2023
NextJS, GraphQL, Tailwind CSS, Hygraph, Auth

- Developed a responsive website for BITS Mental Health Support Group using NextJS, Tailwind CSS, GraphQL and Hygraph.
- Implemented Authentication using Firebase Google Auth provider. User can share playlists and post concerns regarding mental health to experts (Experts have admin page to address these issues)
- Users can choose to delete their data- comments, mental health queries, Auth details.

Property rental agency database   Feb 2023 - Apr 2023
Oracle, PL-SQL   *BITS Hyd*

- LDesigned a EER model and relational schema pertaining to the requirements of the rental agency.
- Created tables with required keys and dependencies.
- Created procedures and triggers to provide functionality to the database.

Skills

- Programming Language: C, C++, JavaScript, Java, SQL
- Foundational Concepts: OOPS, DBMS, OS, Software Engineering
- Skills:Frontend Development, Relational Database Management, Machine Learning
- Toolkits/Libraries: ReactJS, NextJS, Redux, Linux, Git, Docker, VSCode

Position of Responsibility

Website development team head - BITS Mental Health Support Group   Jun 2023 - Present

The website development team at BITS Mental Health Support Group aims at increasing the accessibility, reach, and impact of mental health resources. As the Website Team Head, I lead a team of young developers responsible for developing and maintaining our organization's website, ensuring its functionality, usability, and visual appeal.