BHASKAR JHA

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Education

Haldia Institute Of Technology　　　　　　　　　　　　　　　　　　　**Sep. 2022 – June 2026**
B.Tech in Information Technology　　　　　　　　　　　　　　　　　　　　　　*Haldia, West Bengal*

Projects

🔗 **TapNPay - e wallet**　| *Express.js, React.js, MongoDB, Tailwind CSS, Zod*
- Developed an e wallet Application combining React.js and Tailwind CSS for the frontend, Express.js, and MongoDB for the backend, with Zod for robust input validation.
- All money transfers are performed using MongoDB's native transaction feature to ensure atomicity and consistency of wallet balances.
- Implemented efficient pagination for user lists and transaction history, both on the backend (API) and frontend (UI), to handle large datasets smoothly.
- Utilizes React's Context API for efficient state management across the application.
- Implemented secure user authentication using JWT and bcrypt.js for password hashing.

🔗 **Chatter - chat application**　| *Express.js, React.js, MongoDB, Tailwind CSS, Socket.io, Zustand*
- Built a chat application using React.js and Tailwind CSS for the frontend, Zustand for efficient state management, Express.js and MongoDB for the backend, and Socket.io for real-time communication.
- Implemented real-time messaging and live user status updates using Socket.IO, enabling seamless bidirectional communication.
- Implemented secure user authentication using JWT(access token and refresh token) with HTTP-only cookies for enhanced security measures.
- Integrated Cloudinary cloud storage for media management, handling user profile pictures and message attachments.
- Utilizes Zustand for efficient and scalable state management across the application.

🔗 **Foodify**　| *React.js, Redux-toolkit, Tailwind CSS*
- Developed using React.js with modern hooks (useState, useEffect, custom hooks) and designed a responsive, visually appealing UI with Tailwind CSS.
- Utilized React Router v6 for client-side routing with dynamic routes for seamless navigation.
- Implemented Redux Toolkit for centralized state management, particularly for cart functionality.
- Integrated with Swiggy's public APIs to fetch restaurant listings and menu data using the fetch API.
- Ensured code reliability and functionality with Jest and React Testing Library for unit and integration testing.

Technical Skills

Languages: Java, JavaScript, SQL
Frameworks & Technology: Express.js, React.js, MongoDB, Redux Toolkit, Tailwind CSS, AWS(EC2, S3), CSS
Developer Tools: Git & GitHub, Postman

Relevant Coursework

- Data Structures and Algorithms
- Design and Analysis of Algorithms
- Object Oriented Programming
- Database Management System
- Operating System
- Computer Network

Leadership / Extracurricular

ACM HIT STUDENT CHAPTER　　　　　　　　　　　　　　　　　　　**March 2024 – Present**
Technical Teacher　　　　　　　　　　　　　　　　　　　　　　　　　　　*HIT, Haldia*
- Educated and mentored students in hands-on technical training sessions.
- Organized Workshops, Hackathons, Coding Competitions, and Guest talks on various technologies, frameworks, and tech stacks.
- Collaborated with a team of 30+ members to effectively plan and execute various events and activities.