Rahul Dey
Full Stack Web Developer

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EDUCATION

Alma Better   Bengaluru
Full Stack Web Development   *July 2023 - March 2024*

Maulana Abul Kalam Azad University of Technology   Kolkata, West Bengal
Bachelor of Science   *July 2020 - June 2023*

EXPERIENCE

Web Development Trainee (MERN stack)   March 2023 – March 2024
AlmaBetter   *Bengaluru*

- Skills: MERN, Search Engine Optimization, DSA, Databases, Monitoring, Team work, Business Communication.

- Gained hands-on experience in Front-end development as well as in Back-end development with programming languages and tools such as React.js, Next.js, Node.js and using databases such as MongoDB and MariaDB.

- Created and optimized web applications, utilizing front-end frameworks like React and back-end frameworks like Express .

- Learned about best practices, including user authentication, federated login/register and data encryption, to develop and deploy high-quality and secure web applications.

- Secured the 2nd place among the top 3 students in the cohort of 232+ students , and worked as an SME.

Industrial Trainee   Nov 2021 – May 2022
The Lalit Great Eastern Kolkata   *Kolkata, West Bengal*

PROJECTS

Entertainment App | AlmaBetter Verified Project   Live Demo | GitHub
- The full stack app built with React and integrated with TMDB API, ensuring a seamless and dynamic experience for users to explore the latest movies and TV series.
- During development, two main challenges were tackled: navigation issues between app sections and security concerns regarding user data privacy, especially with the Bookmarks feature. Navigation was improved with labeled tabs/buttons, and robust encryption protocols were implemented for data protection. Additionally, performance issues due to code inefficiency and managing concurrent development were addressed by refactoring code, optimizing queries, and utilizing Git with CI/CD practices.

Flashcard Generator | AlmaBetter Verified Project   Live Demo | GitHub
- Intuitive Interface: Formik and Yup enable easy form filling for flashcard creation, including titles, descriptions, and multiple terms, with dynamic term management.
- During Flashcard Generator development, two key challenges emerged: performance optimization and cross-browser compatibility. Techniques like lazy loading and async processing improved performance, while rigorous testing and browser-specific solutions ensured consistent functionality across different browsers.

Get-Youtube-Subscribers | AlmaBetter Verified Project   Live Demo | GitHub
- Utilizes React, JavaScript, HTML, and CSS to create a user-friendly interface for fetching detailed subscriber data from YouTube, with a Node.js backend built using Express.js, Mongoose, and MongoDB to handle frontend requests and manage subscriber data retrieval and storage.
- API Endpoints: Includes GET /subscribers for detailed info, GET /subscribers/names for names and channels, and GET /subscribers/:id for subscriber retrieval or error.
- Testing and Validation: Chai and Mocha ensure API functionality and error handling, Dotenv configures the environment, and Mochawesome generates detailed test reports in Node.js.

Cryptocurrency Tracker   Live Demo | GitHub
- Track crypto prices with our lightning-fast Vite + React.js Crypto Tracker. Enjoy seamless signup/login with Firebase, personalized watchlists, and detailed chart data. Utilizes Material UI, Chart.js, React-router-dom for a comprehensive experience.

- Overcame challenges of limited API calls by implementing alternative strategies for managing data updates. Resolved authentication issues during Firebase setup by adding the new domain to the authentication settings, ensuring seamless user authentication.
    * *Visit Portfolio for more projects...*

TECHNICAL SKILLS

Frontend Development: JavaScript (ES6+), HTML5, CSS3, AJAX, XML, JSON, DOM, React, jQuery, Tailwind CSS, Bootstrap, NextJS, React-Router-DOM, Material UI, Chart.js, etc.
Backend Development: Node.js, Express.js, REST API, SQL (Maria DB), NoSQL (MongoDB), Mongoose, Axios, Express Validator, etc.
Software Development Practices: OOPS (Object-Oriented Programming), Data Structures and Algorithms, Redux, SDLC, etc.
Tools and Version Control: Git, GitHub, VS Code, NPM, etc.
Cloud Services And Deployment: AWS, Firebase, GitPages, Netlify, Render, Vercel, etc.