Rudra Sarkar

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PROFESSIONAL SUMMARY

Passionate recent B.C.A. graduate skilled in full stack development, with hands-on experience in **React.js**, **Node.js**, **Spring Boot**, **MongoDB**, **MySQL**, and **Tailwind**. Experienced in building web applications and eager to contribute to real-world projects.

SKILLS

- **Java • JavaScript • TypeScript • React.js • Node.js • Spring Boot • MySQL • MongoDB • Tailwind CSS • Git**

PROJECTS

Trade-Hub | *React, Node.js, MongoDB, Redux, Tailwind CSS, Socket.io, NodeMailer, JWT Authentication*
- Developed a full stack web application where users can seamlessly showcase their products. If a user finds interest in another's product, they can engage in real-time chats with the owner for potential purchases.
- Frontend developed using **React.js** with **Tailwind CSS** for design.
- State managed using **Redux Toolkit**. Also, **Context API** used to manage **WebSocket** and **notification** functionality.
- Backend developed with **Node.js** and **Express.js**, featuring a **REST API** for seamless communication. Utilizes **JWT authentication** for secure user access. Also used **NodeMailer** for password recovery and user feedback functionality.
- **MongoDB** used as the database for data storage and aggregate pipeline for complex queries.
- **Socket.io** implemented for real-time chat functionality to enhance the user communication experience.
- GitHub Repository: [Trade-Hub](#)

Social-Sphere | *React, TypeScript, Node.js, MongoDB, GitHub*
- Developed a social media platform using **MERN Stack**. Contributed as a backend developer in this project.
- Developed **RESTful APIs** for **posts**, **likes**, and **followings** functionality using **Node.js** and **Express.js**. Also used **TypeScript** for type safety.
- Used **MongoDB** as the database for storage and its **Aggregation Pipeline** for complex queries.
- GitHub Repository: [Social-Sphere](#)

Restaurant Table Reservation System | *PHP, HTML, Tailwind CSS, JavaScript*
- Created a website for the restaurant industry where owners can showcase their establishments. Customers can browse listed restaurants, view available tables, and make reservations for specific dates and times.
- Used **PHP** to establish server-side functionality. Also used **Tailwind CSS** for responsive design.
- Utilized **MySQL** for data storage and integrated **Razorpay** for payment demonstration. Implemented 'forgot password' functionality using **PHPMailer**.
- GitHub Repository: [Restaurant Table Reservation System](#)

Blog-Spot-Backend | *Java, Spring Boot, MySQL, JWT Authentication*
- Built a standalone backend application in Spring Boot with two main RESTful services: **User** for managing users and **Blog** for handling blog posts.
- Used **MySQL** for data storage and management, with **Hibernate** for object-relational mapping.
- Implemented **JWT (JSON Web Token)** authentication to secure API endpoints and manage user sessions.
- GitHub Repository: [Blog Spot Backend](#)

EDUCATION

Maulana Abul Kalam Azad University of Technology   2024
Bachelor of Computer Applications (B.C.A.), CGPA: 8.74

West Bengal Board of Secondary Education (WBBSE)
Higher Secondary, Marks: 83.8%

ABOUT ME

- Residence : Kolkata, WestBengal.
- Language : Bengali, English, Hindi.
- Interest : New Technology, Cricket, , Video Game , Problem solving .