

SOMNATH ROY

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🌐 [Linkedin](#)

🐙 [Github](#)

🔗 [LeetCode](#)

🔗 [GeeksforGeeks](#)

EDUCATION

Jadavpur University

B.E - Power Engineering - **CGPA - 8.3**

2021 – 2025

Kolkata, West Bengal

Chandraban High School (H.S)

WBCHSE Board - Class XII - **Percentage - 88%**

2019 – 2021

Hooghly, West Bengal

Chandraban High School (H.S)

WBBSE Board - Class X - **Percentage - 89%**

2018 – 2019

Hooghly, West Bengal

PROJECTS

Skill Teach [🔗](#) | [Mongoose](#), [Express.js](#), [React.js](#), [Node.js](#), [Tailwind CSS](#)

2023-24

- Skill Teach is a fully functional ed-tech platform where users can log in as students or instructors. Instructors can create and publish courses, and students can consume and rate educational content.
- Implemented a secure sign-in/sign-up process with password hashing using **bcrypt.js**. The system generates a **Jwt** token stored as a **cookie**.
- Utilized **Redux** and **Redux toolkit** for state management, and **Axios** for connecting with backend APIs.
- The application is developed using **MVC** architecture which can be easily scaled.
- Integrate email functionality with **nodemailer** for confirming course purchases, facilitating logins, and managing password resets. Ensure reliable communication by utilizing Gmail **SMTP**.
- Implemented integrated **Razorpay payment** functionality and a **Cloud-based** media management system for streamlined course purchases and efficient data storage.

Rapid Chat [🔗](#) | [Mongoose](#), [Express.js](#), [React.js](#), [Node.js](#), [Socket.io](#), [Styled-components](#)

2024

- A web-based chat application that supports **real-time** messaging and notifications.
- Implemented a custom sign-in/sign-up process, securely hashing and authenticating passwords with **bcrypt.js**.
- It supports one-on-one messaging, allowing users to view the past chat history of selected users.
- Messages are sent and received, and notifications are handled in **real-time** using **Socket.io**.

Personal Portfolio [🔗](#) | [Mongoose](#), [Express.js](#), [React.js](#), [Node.js](#), [Tailwind CSS](#)

2023-24

- Designed and developed a full-stack portfolio website using the MERN stack, incorporating responsive web pages such as Home, About, Project Showcase, Resume Showcase, and Contact Us using **React.js**.
- Integrated email functionality using **Nodemailer** upon successful submission of the Contact Us form, ensuring reliable communication through Gmail **SMTP**.
- Integrated **MongoDB** to store user data submitted through the Contact Us form, ensuring data persistence and scalability.

TECHNICAL SKILLS

Languages: C++, JavaScript

Databases and Architecture: MongoDB, MySQL, MVC

Technologies/Frameworks: HTML5, CSS3, Tailwind, React.js, Redux, Node.js, Express.js, Socket.io

Developer Tools: VS Code, Git, Github, Github Desktop, Vercel, Postman API, Render

Soft Skills: Time Management, Teamwork, Communication, Problem Solving

RELEVANT COURSEWORK

- | | | | |
|---------------------------------------|-------------------------------------|---------------------|--------------------------------|
| • Data Structure and Algorithms (DSA) | • Database Management System (DBMS) | • Operating Systems | • Computer Networking (Basics) |
| | | • Oops Concepts | |

ACHIEVEMENTS

- * **Leetcode:** Solved **500+** Problems with consistency [🔗](#)
- * **GeeksforGeeks:** Solved **350+** Problems , Institution Rank : **80** [🔗](#)
- * Clear Code Ninja's Aptitude And Round2 Test of CodeKaze :- College Rank :- **55** (06/2023) [🔗](#)

INTERESTS

- * Back-End Development, Problem Solving
- * Software Development Tools and Technologies