

SOMNATH ROY

Kolkata, West Bengal

☎ +91-9564690340

✉ somnathroy0340@gmail.com

🌐 [Linkedin](#)

🐙 [Github](#)

🔗 [LeetCode](#)

📁 [Portfolio](#)

EDUCATION

Jadavpur University

B.E - Power Engineering - **CGPA - 8.2/10**

2021 – 2025

Kolkata, West Bengal

Chandraban High School (H.S)

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

2019 – 2021

Hooghly, West Bengal

PROJECTS

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

Aug'23 - Dec'23

- 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**.
- 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.

Medi-Care 📄 | [Mongoose](#), [Express.js](#), [React.js](#), [Node.js](#), [Firebase](#), [Tailwind](#), [WebRTC](#)

Feb'24 - Present

- Medi-Care is a web-based healthcare application that provides comprehensive medical support, including doctor **appointment booking**, **online video-calling** doctor consultations, **blood donation** coordination, **AI-powered health assistance**, and **emergency medical aid**.
- Implemented a secure **sign-in/sign-up** process with password hashing using **bcrypt.js**. The system generates a **Jwt** token stored as a **cookie**. Also implemented **real-time authentication** using **Firebase**.
- Utilized **Redux** and **Redux toolkit** for state management, and **Axios** for connecting with backend APIs.
- MongoDB** and **Mongoose** are utilized for **data storage** and **schema validation**, ensuring data consistency and integrity.

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

Jan'24 - Feb'24

- 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**.

TECHNICAL SKILLS

Languages: C++, HTML5, CSS3, JavaScript, SQL

Databases and Architecture: MongoDB, MySQL, MVC

Technologies/Frameworks: React.js, Node.js, Express.js, Redux Toolkit, Socket.IO, Tailwind-CSS

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:** 1680+ Rating, Solved 550+ Problems with consistency 📄
- * **GeeksforGeeks:** Solved 350+ Problems, Institution Rank : 80 📄
- * Achieved 2029 rank in **Leetcode** among 28,742 participants
- * Clear Coding Ninja's Aptitude And Round2 Test of CodeKaze :- College Rank :- 55 (06/2023) 📄

INTERESTS

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