SOMNATH ROY

Kolkata, West Bengal

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EDUCATION

Jadavpur University	**2021 – 2025**
*B.E - Power Engineering - **CGPA - 8.3***	*Kolkata, West Bengal*
Chandraban High School (H.S)	**2019 – 2021**
*WBCHSE Board - Class XII - **Percentage - 88%***	*Hooghly, West Bengal*
Chandraban High School (H.S)	**2018 – 2019**
*WBBSE Board - Class X - **Percentage - 89%***	*Hooghly, West Bengal*

PROJECTS

Skill Teach ↗ | Mongoose, Express.js, React.js, Node.js, Tailwind **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 **bcryptjs**. The system generates a **Jwt** token stored as a cookie.
- 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, Tailwind **2023-24**
- A chat application(web) that supports **real-time** messaging and notifications.
- Implemented a custom sign-in/sign-up process, securely hashing and authenticating passwords with bcryptjs.
- It supports one on one messaging. User can view the past chat history of selected users.
- **Real-time** messaging, typing indicator, notifications and group events are handled using **Socket.io**.

Personal Portfolio ↗ | React.js, CSS, Tailwind CSS **2023-24**
- Developed a visually captivating and user-centric interface using React.js and Tailwind css, enhancing the overall user experience of the website.
- Showcased web development expertise through seamless integration of essential features, including Home Page, About Page, and Dynamic Project/Resume Showcase.
- Features Incorporated social media integration to foster enhanced connectivity and engagement, optimizing the website's reach and user interaction.

TECHNICAL SKILLS

Languages: C++, JavaScript
Databases: MongoDB, MySQL
Technologies/Frameworks: HTML5, CSS3, Tailwind, React.js, Node.js, Express.js, Socket.io
Developer Tools: VS Code, Github, Vercel, Postman API, Render
Soft Skills: Time Management, Teamwork, Communication, Problem Solving

COURSEWORK / SKILLS

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

ACHIEVEMENTS

- **Leetcode:** Solved **500+** Problems with consistency ↗
- **GeeksforGeeks:** Solved **350+** Problems , Institution Rank : **80** ↗
- **CodeChef:** 3 Star , Max Rating 1469 ↗
- 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