

Nayan Kumar Ghosh

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EDUCATION

MAKAUT UNIVERSITY

B.TECH IN COMPUTER SCIENCE AND
ENGINEERING

Jun 2022 - present
Asansol, West Bengal
CGPA : 8

SHANTINAGAR VIDYAMANDIR

HIGHER SECONDARY

2019 - 2021
Burnpur, West Bengal
Percentage : 81

COURSEWORK

DBMS
Operating System
Computer Networks
Object Oriented Programming
Data Structures and Algorithms
Advanced C Programming

SKILLS

PROGRAMMING

Languages:
C++ • Python • JavaScript • SQL

WEB-DEVELOPMENT

Libraries/Frameworks:
React • Express • Nodejs • Vite •
Tailwind-CSS • HTML • CSS
Databases:
MongoDB • MySQL

BLOCKCHAIN DEVELOPMENT

Solidity • Metamask • Ethereum • Ether

DEVELOPER TOOLS:

VS Code • Remix • Postman • Git •
Github • Vercel • npm

CERTIFICATES

Frontend Development: Coursera
Blockchain: Udemey

LINKS

Portfolio: nayangh-portfolio.com
Github: github.com/nayanghosh-2002
LinkedIn: linkedin.com/nayanghosh2002

PROJECTS

WEB-DEVELOPMENT

MELAPP | FULL-STACK SOCIAL MEDIA APP

MERN Stack | JWT Auth | Tailwind CSS | REST API
Github | Link

- Constructed a **comprehensive** social media platform, enabling **secure** account creation, profile updates, and image posting with user interaction.
- Implemented robust **JSON Web Token authentication** and integrated file handling for secure image uploads and persistent storage.
- Engineered a contemporary, **scalable application**, using **React**, **Tailwind CSS** and **Redux** for the user interface, backed by **Node**, **Express** and **MongoDB** system.

CHATIFY | REAL-TIME MESSEGING APP

MERN Stack | Socket.IO | Redux Toolkit | Tailwind CSS | REST API
Github | Link

- Real-time Chat**: Built a **dynamic** messaging system, enabling **private** conversations with full history retention.
- Secured user authentication with **JSON Web Tokens** plus a **powerful** backend API using **Node**, **Express** and **MongoDB**.
- Launched web and server components through **Vercel** and **Render**, ensuring **safe** cross-origin exchanges via **CORS** and cookies.

BLOCKCHAIN DEVELOPMENT

DE-VOTING | DECENTRALIZED VOTING DAPP

HTML/CSS | Solidity | Ethers.js | REST API | MetaMask | Sepolia
Github | Link

- Developed a **secure** voting system with **MetaMask** wallet login and smart contract deployment on the **Sepolia**.
- Constructed a **RESTful** Express backend to manage candidate enrollment and election processes, interfacing with contracts using **Ethers.js**.
- Facilitated one-vote, real-time elections with **unique wallet authentication** and robust **prevention** against multiple entries.

HEALTH-DE | DECENTRALIZED HEALTHCARE DAPP

React.js | CSS | Solidity | Ethers.js | MetaMask | Sepolia
Github | Link

- Developed a **secure healthcare DApp** for storing and retrieving patient medical records on blockchain, using **MetaMask** for access.
- Enabled only the contract owner to **authorize** healthcare providers using smart contract functions and **Ethers.js** integration.
- Built an **intuitive React UI** with modals and validation to manage records, show alerts and visualize blockchain data.

HONORS/AWARDS

Blockchain Lead at Google Developer Group - AEC '24-25
Solved 400+ LeetCode problems with a longest streak of 365 consecutive days.
State-level Chess Champion
Smart India Hackathon 2025
5th at HIVE Hackathon IIT Delhi 2025
4th at MERNIFIER Hackathon at IIT Bombay 2024