

RAHUL KARMAKAR

Kolkata, West Bengal

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🌐 LinkedIn

🐙 Github

🌐 Portfolio

EDUCATION

Hooghly Engineering and Technology College

B.Tech in Computer Science and Engineering - CGPA - 9.08

08/2021 – present

Hooghly, India

West Bengal Council of Higher Secondary Education

Higher Secondary - Percentage - 77.8%

04/2018 – 07/2020

Pandua, India

West Bengal Board of Secondary Education

Secondary - Percentage - 78.28%

04/2018 – 07/2020

Pandua, India

PROJECTS

jwt-auth-utility [🔗 Github](#) [🔗 Live](#)

10/2024

Tech Stack: NodeJS, jsonwebtoken

- A lightweight Node.js package **simplifying JWT handling for secure authentication**. Easily configure **token generation, validation, expiration, and refresh tokens**. Perfect for enhancing security in any authentication flow.

NeoChat [🔗 Github](#) [🔗 Live](#)

08/2024

Tech Stack: MERN, WebSocket, Crypt, Tailwind, Cloudinary, Vercel, AWS EC2, Docker

- Developed a real-time chat web application with key features like **encrypted messaging, file sharing with download capability, and user-created channels and groups**.
- Implemented JWT-based secure **user authentication** and real-time **online/offline** status tracking.
- Integrated **debouncing for efficient user search** and displayed last message with timestamp for each contact.
- Utilized Cloudinary for seamless media storage and management.
- Hosted on **Vercel and AWS EC2 with Docker** for scalable and efficient deployment.

StudyNotion [🔗 Github](#) [🔗 Live](#)

12/2023

Tech Stack: MERN, Tailwind, Cloudinary, Vercel, AWS Lambda, API Gateway, Serverless

- A full stack EdTech web app with three distinct user roles: **Student, Instructor, and Admin**.
- Developed features for Instructors to **create/manage courses**, Students to **purchase/review courses**, and Admins to **manage categories and handle administrative tasks**.
- Integrated **Razorpay** for payment processing and implemented robust user authentication with **email notifications**.
- Designed distinct dashboards for each user role and ensured a **fully responsive design** with media storage managed by **Cloudinary**.
- Hosted on **Vercel and AWS Lambda (serverless)** for scalable deployment.

COURSEWORK / SKILLS

- Data Structures & Algorithms
- Database Management System (DBMS)
- OOPS Concept
- Web Development

TECHNICAL SKILLS

Languages: Python, JavaScript, Typescript, Java, C++, C, SQL, NoSQL

Technologies/Frameworks: HTML, CSS, ReactJS, NextJS, NodeJS, ExpressJS, MongoDB, MySQL, AWS, Docker, CICD(Github Actions), Git, GitHub, Linux