

Roshan Kumar Ray

Kolkata, India

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[Email](#) | [Github](#) | [Portfolio](#) | [LinkedIn](#)

Summary

Student with a strong self-taught foundation in full-stack web development, specializing in HTML, CSS, JavaScript, React, and Node.js. Built impactful projects like Netflix Clone, Uber Clone, and Student Smart Card, demonstrating expertise in creating responsive, user-focused applications. Passionate about leveraging interdisciplinary knowledge in web development and innovative projects.

Education

Bachelor of Technology (B.Tech) in Mechanical Engineering

Expected Graduation: May 2027

Heritage Institute of Technology, Kolkata, India

- Relevant Coursework: Engineering Mechanics, Thermodynamics, CAD/CAM, Programming Fundamentals

Higher Secondary Education

National High School, Kolkata, India

Completed: May 2022

Skills Technical Skills

- HTML, CSS, JavaScript
- React, Next.js, Node.js
- Tailwind CSS, Framer Motion
- AWS S3, MongoDB, Express.js
- Google Maps API, HLS.js

Projects

Netflix Clone

- Developed a full-stack streaming platform using Next.js, React, and Node.js, featuring video playback, episode selection, and user authentication with NextAuth.
- Implemented HLS.js for adaptive bitrate streaming and AWS S3 for secure video storage, achieving 95%+ Google Lighthouse performance scores.
- Designed responsive UI with Tailwind CSS and Framer Motion for animations, including a dynamic HeroSection with email input and content banners.
- Built API routes for content fetching and streaming, ensuring secure playback with signed URLs.

Uber Clone

- Created a ride-sharing web application using React, Node.js, and MongoDB, with real-time ride booking, driver tracking, and payment integration.

- Integrated Google Maps API for location services and route optimization, providing accurate ride estimates and live tracking.
- Developed secure user authentication with JWT and Express.js, supporting rider and driver dashboards.
- Designed a responsive, accessible interface with Tailwind CSS, optimized for mobile and desktop users.

Student Smart Card

- Built a MERN-stack web application for managing student IDs, attendance, and library access, integrating with institutional databases.
- Developed a responsive dashboard with React and Tailwind CSS to display student profiles, attendance records, and transaction history.
- Implemented secure authentication with JWT and Node.js, ensuring data privacy and role-based access for students and administrators.