

# RITIK SINGH

+91 9608129408 ritiksingh1809@gmail.com Kolkata, India  
LinkedIn Github My-Portfolio

## Education

Netaji Subhash Engineering College Kolkata

B.Tech in Computer Science & Engineering

2021 - 2025

8.43/10 CGPA

## Work Experience

Sprigrer Technology Private Limited —

Jan 2024 – Feb 2024

Frontend Developer Intern

Remote

- Crafted and executed inventive design solutions for intricate user interface challenges leveraging React.js.
- UI/UX Design
- Enhanced skills through mentorship from senior developers, gaining valuable insights and refining expertise in MERN stack development.

## Projects

### Real-time Chat Application

- **Tech Stack:** *React.js, Node.js, Express.js, MongoDB*
- Implemented secure user authentication and login with **Node.js** and **Express.js**.
- Stored and managed messages using **MongoDB**, ensuring seamless chat history retrieval.
- Developed interactive interfaces with **React.js** for one-on-one and group chat functionalities.
- Implemented secure authentication using **JWT**, **password hashing**, and **data encryption**, ensuring protection against unauthorized access.
- Integrated real-time messaging and group chat features for a robust user experience.

### Pathfinding Visualizer

- **Tech Stack:** *MongoDB, Express.js, React.js, Node.js*
- Developed a pathfinding visualizer application using **React.js** for front-end development.
- Implemented diverse pathfinding algorithms including Dijkstra's, BFS, DFS, etc., to determine the optimal path.
- Leveraged algorithms to find the most efficient route within different graph structures.

### Decoding Draupadi - Draupadi on the Dias

- **Tech Stack:** *React.js, Node.js, Express.js, MongoDB*
- Developed a **MERN** stack web platform empowering women speakers and experts.
- Created a user-friendly website facilitating registration and profile viewing for female speakers.
- Implemented secure user authentication and login with **Node.js** and **Express.js**.
- Implemented features enabling users to invite speakers for events, fostering collaboration and empowerment.

## Technical Skills

**Languages:** C, C++, Python, Java, JavaScript

**Backend:** Node.js, Express.js

**Frontend:** React, TailwindCSS, HTML, CSS, Bootstrap, Material UI

**Databases:** MySQL, MongoDB

**Web Technologies:** Socket.IO

**Developer Tools:** Postman, VS Code, Git and GitHub

## Achievements

- Secured **GATE 2024** qualification
- Finalist in "Innohacks," a prestigious pan India hackathon.
- 350+ problems solved on LeetCode
- 300+ problems solved on GeeksForGeeks
- Earned rewards from GeeksForGeeks (Bag and T.Shirt)

## Certifications

- HTML, CSS, and Javascript for Web Developers
- Python Programming Essentials
- Build a Backend REST API with Node JS from Scratch