

PRAKHAR SINGH

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Education

Roorkee Institute of Technology (Roorkee, India)

Oct,2021-June2025

Bachelor of Technology (Computer Science)

CGPA-6.7

Profile

A passionate and detail-oriented software engineer with hands-on experience in developing web applications using MERN stack, Node.js, and ReactJS. Eager to apply my knowledge and technical skills to real-world challenges and contribute to dynamic software development teams.

Relevant Coursework

- | | | | |
|---------------------|------------------------|------------------|-----------------------|
| • Data Structures | • Software Engineering | • Algorithms | • Database Management |
| • Computer Networks | • Operating System | • Data Analytics | |

Experience

HP computers, Lucknow

June 2024– August 2024

Software engineer Intern

Onsite

- Developed and optimized algorithms to enhance system performance, working directly with on-site engineering teams to address complex computational challenges.
- Gained hands-on experience in applying data structures and algorithmic principles to solve real-world problems, focusing on efficiency and scalability.
- Participated in DSA-focused workshops and training, strengthening foundational knowledge and coding skills.

Projects

Twitter Clone (*MERN Stack*)

[Link](#)

- **User Authentication & Authorization:** Implemented secure user registration and login functionality using JWT (JSON Web Tokens) and bcrypt for password hashing.
- **Tweet Functionality:** Enabled users to create, edit, and delete tweets, with support for character limits, hashtags, and mentions.
- **Follow System:** Developed a system where users can follow and unfollow others, with a dynamic feed showing tweets from followed accounts.
- **Notifications:** Built a real-time notification system to alert users of new followers, likes, and retweets.
- **Responsive Design:** Ensured the application is mobile-friendly and responsive across various devices.

Simon Game (*HTML, CSS, Java Script*)

[Link](#)

- Developed an interactive Simon game using HTML, CSS, and JavaScript.
- The game challenges users to replicate an increasingly complex sequence of colours and sounds generated by the computer. Each round adds a new step to the sequence, requiring players to maintain focus and improve their memory skills.

ABC Chatbot (*MERN Stack with Gemini API*)

[Link](#)

- The project demonstrates proficiency in front-end development, including DOM This project involves creating an interactive chatbot using **ReactJS**.
- It is integrated with the **Gemini API** which has enhance natural language processing (NLP), and connect with external services.
- The bot provides dynamic responses based on user input and API calls, making it suitable for customer support, personal assistance, or general interaction.

Skill

- **Language:** - Hindi (Native), English (Intermediate).
- **Technical Skill:** -Python, C, C++, Java script, HTML, CSS, NodeJS, MongoDB, React, OOPS, Data Structure and Algorithms, DBMS, MySQL.
- **Certificate:** -HP computers Internship certificate, Hackathon certificate RIT (2023-2024).