

# Sahil Gupta

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## Education

**National Institute of Technology, Kurukshetra**  
*Bachelor of Technology in Information Technology*

2021-2025  
CGPA: 8.98/10

## Experience

### Web Developer Intern

Dec 2023 – May 2024

GradUp

Remote

- Built **responsive** front-end using React.js and **improved** state management by **30%** using Redux.
- Integrated the back-end with front-end, **reduced** page load time by **15%** using lazy-loading overall **optimizing** the application performance.
- Revamped** website layout and design elements using Tailwind CSS, resulting in a **25% increase** in average session duration, **elevating** user experience and driving **engagement**.

### Project Intern

May 2024 – June 2024

C-DAC (Center for Development of Advanced Computing)

Remote

- Acquired practical expertise in **DNS Server Administration**, executing attack simulations and **devising robust defense strategies** to protect organizational assets.
- Gained hands-on experience with advanced **Ethical Hacking** and **Penetration Testing** tools such as **AMASS**, **Wireshark**, **Nuclei**, **Nessus**, **Sparta** etc.

## Projects

**Dream Nest** | React, Redux, Node, MongoDB, JWT, Material UI

[Github](#) | [Live Link](#)

- Boosted search efficiency and **reduced query latency by 30%** through the implementation of a MongoDB search index and the use of **aggregation pipelines**, significantly enhancing user experience.
- Improved application efficiency by utilizing **Redux Toolkit** to access global states without extensive re-rendering, enabling a **20%** faster load time and employed **JWT** and **BCrypt** for user authorization and verification.

**The Haweli Resort** | React, Node, Tailwind CSS, MongoDB

[Live Link](#)

- Developed and deployed a client website in collaboration with Teksila.in, showcasing strong front-end development skills and **effective project management**.
- Enhanced restaurant data management with Redux, **integrated payment gateway (Razor-pay)** for seamless transactions, boosting order efficiency by **25%** and simplified login/registration for **enhanced user experience**.

**Simple Ray Tracer** | C++, STL

[Github](#)

- Implemented a functioning **ray tracer** focusing on **rendering** basic scenes with spheres and materials.
- Utilized C++ for **high-performance computation** and implemented ray-sphere intersection and basic shading algorithms to generate **realistic images**.

## Technical Skills

**Programming Languages:** Java, C++, JavaScript, HTML/CSS, SQL

**Frameworks and Libraries:** React, Redux, Node, Bootstrap, Next, Tailwind, MongoDB, MySQL, Firebase

**Domain Knowledge:** Full Stack Development, Data Structures & Algorithms, Object-Oriented Programming

**Dev/AI Tools:** IntelliJ, VS-code, Git, GitHub, Postman, Copilot (GitHub), ChatGPT, Gemini

## Achievements

- Solved over **700** problems on [Leetcode](#) and [code360](#).
- Achieved 3-star rating on Codechef.
- Ranked **409** globally out of 10,000 participants in Codechef Starter-98 Contest.
- Qualified for the zonal level of **Smart India Hackathon** among 150 teams.