

# Sunikhil Thakur

## Pre-Final Year Computer Science Student

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### Projects:

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#### Blog Management System

- **Description:** Developed and implemented a highly scalable backend architecture using MongoDB, Express, Node.js, Nodemailer, and Socket.io, enabling seamless real-time communication and enhancing user engagement on a blog website.
- **Features:**
  - Introduced a user authentication and authorization system with admin privileges.
  - Crafted a notification system using Nodemailer for personalized email notifications, fostering a 30% increase in user interaction through timely updates on new blog posts, comments, and pertinent activities within the blog community.
  - Implemented an admin blog approval system to review and approve blog posts submitted by users before publishing, ensuring content quality and adherence to community guidelines.
  - Engineered an intuitive dashboard interface for administrators to manage blog submissions, review pending posts, and take appropriate actions such as approving, rejecting, or editing blog content.

#### Task Manager

- **Description:** Constructed a feature-rich Todo application using React, Express, and PostgreSQL, with a focus on enhancing user productivity and experience.
- **Features:**
  - Integrated functionalities for task addition, deletion, and prioritization.
  - Presented search functionality for efficient task retrieval.
  - Employed Prisma ORM (Object-Relational Mapping) with PostgreSQL database for efficient data modeling, querying, and management, ensuring optimal performance and scalability of the task management application.

#### Chat App

- **Description:** Constructed and deployed a full-fledged chat application using the MERN (MongoDB, Express, React, Node.js) stack, incorporating JWT authentication and Socket.io for real-time communication.
- **Features:**
  - Executed end-to-end user authentication using JSON Web Tokens (JWT), ensuring secure access to chat features and protecting user privacy.
  - Incorporated Socket.io for real-time messaging functionality, enabling instant communication and seamless interaction between users in the chat application.
  - Utilized user status indicators to display online, offline, or idle statuses, enhancing user experience and facilitating real-time communication awareness.

### Skills:

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#### Technical Skills:-

**Programming Languages:** Java, C++ , Javascript , OOPS

**Frameworks :** Express , Node ,React

**Database:** Mongoddb , MySql

**Version Control:** Git ,Github

#### Education:

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Bachelor of Engineering in Computer Science, Chitkara University (**Aug 2021- Aug 2025**) (CGPA – 8.5 till 4 Semester)

Secondary Education , Shanti INTERNATIONAL Sr. Sec. Public School (Completed in 2021) (CBSE)