

Satyam Ghosh

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EDUCATION

- Indian Institute of Information Technology Jabalpur
B.Tech in Computer Science Engineering
Relevant Courses: Operating Systems, Data Structures, Algorithms, DBMS, Computer Networks

Jabalpur, India

Aug 2023 - May 2027

TECHNICAL SKILLS

- Programming Languages: Python, C++, Java, JavaScript, SQL, HTML, CSS
- Frameworks: React, Next.js, Express, Tailwind CSS, Node.js
- Databases: MongoDB, MySQL, PostgreSQL, GraphQL
- Tools & Technologies: Git, Docker, VS Code, Postman, Prisma, REST API, JWT Authentication
- Technical Abilities: Debugging complex issues, optimizing database performance, developing scalable web applications

PROJECTS

- RiseUp – Mental Health Support Website
Tech Stack: React, Next.js, Node.js, Express.js, MongoDB, Appwrite, Tailwind CSS
 - Mental Health Platform:** Engineered a **HIPAA-compliant web platform** for guided meditation and mood tracking, facilitating **1:1 weekly support sessions** for **500+ users**, with **90% reporting reduced anxiety levels**.
 - User Authentication and Security:** Implemented **Appwrite authentication**, ensuring **95% user anonymity** and enhanced data protection.
 - Analytics and Engagement:** Tracked user engagement through **500+ completed meditation sessions** and recorded a **20% average mood improvement score**.
 - Performance Optimization:** Reduced API response time by **75%** using **MongoDB indexing** and **optimized query execution**.
- TaskMaster – Productivity and Time Management App
Tech Stack: React, Next.js, Node.js, Express.js, MongoDB, Prisma, NeonDB, Tailwind CSS, GraphQL
 - Task Management System:** Launched a **productivity-focused task management app** with **Kanban boards**, **real-time reminders**, and **priority-based scheduling**, leading to **30% increased task completion rates**.
 - Database Performance:** Optimized data handling using **Prisma ORM** with **NeonDB**, reducing query execution time by **40%**.
 - Efficient API Design:** Designed a **GraphQL-powered backend**, improving data retrieval speed and API efficiency by **50%**.
 - Modern UI/UX:** Developed a **responsive and intuitive UI** using **Tailwind CSS**, reducing load time by **35%**.
- DevTasks – Team Task Management
Tech Stack: React, Next.js, Node.js, Express.js, MongoDB, Tailwind CSS
 - Task Collaboration System:** Developed a **team-based task management application** that allows users to **assign tasks**, **set deadlines**, and **track progress** in a centralized workspace.
 - Role-Based Access Control (RBAC):** Implemented **role-based permissions** where **Admins** can create and assign tasks, while **Team Members** can update and mark tasks as completed. Secured user authentication using **JWT-based authentication**.
 - Automated Task Reminders:** Integrated a **task reminder system** using **Node.js cron jobs** to send automated alerts when deadlines approach, reducing overdue tasks by **30%**.
 - Performance Enhancements:** Optimized database operations using **MongoDB indexing** on critical fields like **due_date** and **assigned_to**, improving task retrieval speed by **45%**.
 - Optimized User Experience:** Utilized **Next.js Server-Side Rendering (SSR)** to enhance page load performance and ensure smooth task management across devices.

ACHIEVEMENTS

- LeetCode Performance:** Achieved a rating of **1700+** with a best rank of **2764**, solving over **300+ competitive programming problems**.
- CodeChef Rankings:** Achieved a rating of **1400+** and secured a **global rank of 1050** in the **"Starters 176"** contest.
- Hackathon Finalist:** Competed in the **"Can You Hack It"** hackathon (August 2024), developing a full-stack application.

PROFILES

- LeetCode:** leetcode.com/u/3qQDY4J2YE
- CodeChef:** codechef.com/users/satyamghosh89
- LinkedIn:** linkedin.com/in/satyam-ghosh-43b81a290