Satyam Ghosh

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EDUCATION

- **Indian Institute of Information Technology Jabalpur** — Jabalpur, India
  B.Tech in Computer Science Engineering — *Aug 2023 - May 2027*
  Relevant Courses: Operating Systems, Data Structures, Algorithms, DBMS, Computer Networks

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, 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
  - **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, 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 Optimization**: Enhanced **MongoDB performance** by implementing indexing and efficient query structuring, 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**, optimizing asset loading and CSS rendering, reducing **load time by 35%**.

- **DevTasks – Team Task Management**
  Tech Stack: React, Next.js, Node.js, Express.js, MongoDB
  - **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/satyamghosh$_8$9
- **LinkedIn**: linkedin.com/in/satyam-ghosh-43b81a290