Satya Prakash Sahu

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EDUCATION

•**National Institute of Technology, Agartala** — *2023-2026*
Master of Computer Application (MCA) — CGPA: 8.1

•**North Orissa University, Odisha** — *2019-2022*
B.sc Computer Science(Hons) — CGPA: 8.51

PERSONAL PROJECTS

•**Student Attendance Management System (Backend - MERN Stack)** — *February 2025*
(Mongoose, NodeJS, ExpressJS) — GitHub Link

- Developed a backend system for managing student attendance using Node.js, Express.js, and MongoDB.
- Designed and implemented RESTful APIs for attendance tracking, student management, and class organization.
- Integrated Cloudinary to store attendance reports (CSV files) and generate shareable download links.
- **Database Management:** Utilized Mongoose to design an optimized, schema-based database for efficient attendance record retrieval.
- **Security:** Implemented JWT-based authentication and role-based access control to protect sensitive student data.
- **Testing Debugging:** Utilized Postman for API testing and debugging, ensuring smooth backend functionality and error handling.

•**MERN Stack Development for YouTube-Clone-Backend** — *November 2024*
(Mongoose, NodeJS, ExpressJS) — GitHub Link

- Architected a scalable and optimized backend for a YouTube-based project using Node.js, Express.js, and MongoDB.
- Designed implemented RESTful APIs for video uploads, user authentication, comments, and subscriptions, ensuring seamless interaction between frontend and backend.
- Integrated Cloudinary for efficient and optimized video and image storage, enabling automatic resizing and transformation.
- **Database Management:** Used Mongoose to design a well-structured, schema-based database, ensuring efficient data handling and indexing for faster query performance.
- **Security:** Implemented JWT-based authentication and role-based access control, ensuring secure API endpoints and protected user data.
- **Testing:** Conducted automated API testing using Postman and implemented error-handling middleware to ensure application reliability.

•**Food Delivery Website | Fronted Development** — *April 2024*
(HTML, CSS, Javascript) — GitHub Link

- Built a fully responsive and user-friendly food delivery platform with an intuitive UI.
- Designed modern, visually appealing interface using custom CSS and animations.
- Developed interactive features like real-time form validation and dynamic content updates.
- Optimized performance for fast load times, cross-browser compatibility, and mobile-first design.
- Implemented javaScript-driven interactivity, enhancing the overall user experience.

TECHNICAL SKILLS AND INTERESTS

Languages: C, C++, Sql, Html, Css, JavaScript
Developer Tools: Git, GitHub, Postman, Proficient in Command-Line Interface (CLI) for Windows
Frameworks: React, Rest-API, ExpressJS
Databases: MongoDb, MySql
Soft Skills: Communication, TeamWork, Problem-solving, Adaptability, Time Management, Leadership
Coursework: DSA, DBMS, Web Technology, Operating System, Problem-Solving Programming, Oblect-Oriented Programming, Network, Software Engineer Principles
Areas of Interest: Coding, Prompt Engineering, Development, Public Speaking, and Leadership

ACHIEVEMENTS

•**National Exam:** Secured AIR 643 in NIMCET 2023 National Level MCA Entrance Examination

•Solved 100 + problems on Leetcode   Profile