

Sumit Kumar Jha

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🌐 [linkedin](#)

🐙 [github](#)

🌐 [Portfolio](#)



Education

Indian Institute of Technology (ISM), Dhanbad

Bachelor of Technology in Mechanical Engineering (GPA: 7.34)

- **Relevant Coursework:** Computer programming, Object Oriented Programming(OOPs)

Expected May 2025

Dhanbad, Jharkhand

Experience

CodSoft

Aug 2024 – Sept 2024

Apprenticeship

Remote

- Developed a blogging platform using the MERN stack and Tailwind CSS, featuring a user-friendly design, backend functionality, mobile responsiveness, and functionalities like authentication, post creation, commenting, and search.
- Built a project management tool with React and Express.js for the frontend and backend, using MongoDB for data storage. It features task management, deadline tracking, and progress monitoring, styled with Tailwind CSS.
- Deployed projects on Vercel for seamless hosting, while managing code versions and collaboration through GitHub.

Projects

FieldForecast (Group Project) | MongoDB, Express.js, React.js, Node.js, Python, Flask, NumPy, Pandas

[Source Code](#)

- Developed a full-stack agricultural solution using the MERN stack and machine learning, aimed at optimizing farming processes, and presented it at the institute's internal Smart India Hackathon 2024.
- Built the backend and frontend with MERN stack and added secure authentication, a community forum, RESTful APIs, and an ensemble machine learning model with Python and Flask for crop recommendations.

Interview-Bot | React, Next.js, Node.js, Express.js, Drizzle ORM, PostgreSQL, Clerk, Generative AI, Gemini API

[Source Code](#)

- Developed a web app with React and Next.js, featuring real-time feedback and AI-powered mock interviews.
- Secured authentication with Clerk and optimized database with Drizzle ORM and PostgreSQL.

Blood-Bank | React.js, Node.js, Express.js, MongoDB, JWT

[Source Code](#)

- Built a MERN web app for a Blood Bank with authentication, plus donor, hospital, and organization registration.
- Created an admin panel to manage donors, track donations, and oversee operations with JWT authentication.

PromptGpt | Next.js, MongoDB, Tailwind CSS, AWS EC2, GitHub Actions, Docker

[Source Code](#)

- Built a web app for sharing, editing, and searching AI prompts by tag or name, with full CRUD functionality.
- Deployed using AWS EC2, GitHub Actions, and Docker for efficient containerization and continuous integration.

Technical Skills

Languages: C++, C, Typescript/JavaScript

Full Stack Web: Node.js, Express.js, React, Next.js, REST API, TailwindCSS, Bootstrap, CSS, SQL, HTML, NoSQL

Clouds & Databases: AWS, PostgreSQL, MongoDB, Prisma ORM, Drizzle ORM, Mongoose

Web Technologies & Dev Tools: Postman, Git/Github, Docker, Github Actions, Redis

CS Fundamentals: Data Structures and Algorithms, DBMS, Operating System, System Design, OOPs Concept

Achievements

- Qualified for the Smart India Hackathon national level, top 45 teams at IIT Dhanbad
- Solved 1,100+ coding challenges, showcasing advanced algorithm skills
- JEE Advanced: Top 0.9%, JEE Mains: Top 1.7%
- Codeforces - 1212(Max), Codechef - 1598(Max), HackerRank - 6 Star, LeetCode - Knight

Social Engagements

Volunteer: Volunteered with FFI (Fast Forward India), one of India's largest student-run NGO, based in IIT(ISM) Dhanbad

Volunteer: Volunteered with Kartavya at IIT ISM Dhanbad, aiding education for underprivileged children.

Organizer: Managed Basant 2024 logistics, ensuring smooth execution and earning recognition for organization and detail.