

HRITESH SAHA

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Technical Skills

Languages and DataBases: JavaScript/Typescript, Python, C, Java, MongoDB, MySQL

Web Development Tools: HTML, CSS, React, Node.js, Express.js, FastAPI, Flask, Tailwind CSS, Git, Docker, Vercel, Postman

Other Skills: REST API Development, Responsive Design, Mongoose, Backend Development, Full-Stack Development

Experience/Projects

Carbon Trace - Coal Theft Prevention System

October 2024 – October 2024

Backend Developer & Project Presenter

Raipur, India

- Developed a centralized backend using **Node.js, Express.js, and MongoDB** to monitor real-time coal transportation and manage alert notifications for efficient reporting and surveillance.
- **Designed APIs to facilitate real-time notification systems** for detecting anomalies such as excessive moisture or unauthorized personnel, enhancing theft detection efficiency.
- **Integrated OpenCV with backend services to detect faces of anomalies**, ensuring seamless communication between detection modules and alert systems.
- **Presented the project during the NIT Raipur hackathon's final round**, highlighting technical innovations, real-time monitoring capabilities, and the system's impact on security.

AgriShield - AI based Disease Identification System

July 2024 – August 2024

Backend Developer & Project Presenter

Kolkata, India

- **Built the backend using Node.js, Express.js, and MongoDB** to store user data and provide secure, real-time access to disease diagnosis resources.
- **Designed APIs for crop and livestock disease diagnosis and implemented secure user authentication using JWT** to manage farmer profiles and access control, ensuring fast and reliable system responses.
- **Presented the project during the hackathon judging round**, effectively showcasing its functionality, technical design, and impact to the panel of judges, leading to **our team's selection in the SIH internal hackathon** of our college.

InfiniteLibrary - Online Library Management System

June 2024 – July 2024

MERN Stack Developer

Kolkata, India

- **Developed responsive and dynamic frontend components using React** to enable seamless browsing and reading of books, while integrating **Axios** for efficient communication between the frontend and **Node.js/Express.js** backend.
- **Implemented user authentication with JWT and bcrypt.js and developed scalable REST APIs using Node.js, Express.js, and MongoDB** for book management, including user signup, login, and data storage.
- **Participated in the SummerHacks online hackathon**, where this project was presented, showcasing the implementation of a full-stack solution and securing positive feedback from judges.

Personal Projects/Awards & Achievements

WanderTales - Personal Travel Log

January 2025 – February 2025

- Developed a **travel logging platform** using **React, Node.js, and MongoDB** for users to document and organize their journeys.
- Integrated **JWT authentication** for secure user access and implemented **Cloudinary** for **image uploads**, enabling users to enhance travel entries with **rich media stored in the cloud**.
- Designed an **efficient search and filtering system**, optimizing **data retrieval** for a **seamless user experience**.

Second Rank in CSE Department, First Year

- *Achieved **2nd rank** in the **CSE Department** at **UEM Kolkata** with a **CGPA of 9.66** in the first year, showcasing strong academic performance and dedication to excellence.*

Education

University of Engineering and Management (UEM), Kolkata

July 2023-2027 (Expected)

Bachelor of Technology (B.Tech) in Computer Science

Kolkata, West Bengal

CGPA: 9.64