

Hemant Kulhari

Indian Institute of Technology, Bhilai

+91-8854948972

hemantkulhari4447@gmail.com

hemantkulhari@iitbhilai.ac.in

GitHub

LinkedIn

EDUCATION

Institution	Degree / Board	Year / Score
Indian Institute of Technology, Bhilai	B.Tech in Mechanical Engineering	2026 (CGPA: 6.06)
Aastha Academy Sr. Sec. School, Sikar	Class XII (RBSE)	2022 (88.60%)
Aastha Academy Sr. Sec. School, Sikar	Class X (RBSE)	2020 (93.33%)

WORK EXPERIENCE

Basil Infotech (Mern Stack Intern)

(June 2025 – July 2025)

Solar-Powered Smart Fence Project

- Collaborated with a team to design and develop a solar-powered smart fencing system for transmission tower security.
- Integrated intrusion-detection sensors with ESP32 and GSM (SIM800L) module to send real-time alerts to cloud services.
- Deployed AWS-based cloud architecture for storing intrusion logs and sending multi-channel alerts (SMS, notifications, email).
- Contributed to designing a responsive web interface for tower owners and security teams to monitor alerts and view intrusion history.
- Ensured system reliability with solar power backup and weatherproof enclosure for remote deployment.

PROJECT

BlogBase : MERN Stack Blogging Platform

GitHub (July 2025)

Tools: React.js, Express.js, Node.js, MongoDB, MUI, Axios, Redux, JWT

- Built a full-stack blogging platform allowing users to create, edit, delete, and publish blogs with secure authentication.
- Integrated Redux for efficient state management and MUI for a responsive, modern interface.
- Implemented role-based access control with JWT, ensuring secure content management.
- Added image upload and content-rich blog editor with real-time rendering.
- Designed REST APIs for scalable backend support and optimized database queries for performance.

TECHNICAL SKILLS

Languages: C++, JavaScript, Python(familiar), HTML, CSS

Frontend: ReactJs, Tailwind CSS

Backend: Node.js, Express.js

Cloud/Databases: SQL, MongoDB

Tools: Git, GitHub, VS Code

Others: DBMS, OOPS, Operating Systems

POSITIONS OF RESPONSIBILITY

Member, Outreach Committee

(Apr 2024 - Mar 2025)

Promoted Meraz (techno-cultural fest of IIT Bhilai) by engaging sponsors and coordinating publicity.

Member, Management Committee

(Apr 2024 - Mar 2025)

Handled logistics and coordinated cultural events at IIT Bhilai.

ACHIEVEMENTS & EXTRA-CURRICULAR ACTIVITIES

- JEE** - Top ~1.5% of 1.3M applicants.
- IMU-CET 2022** - Secured AIR-140 in Indian Maritime University entrance exam.
- Inter IIT Sports Meet** - Selected for IIT Bhilai athletics team (2024, IIT Indore).