

Vaibhav Nayan

Adm. No. 21JE1018 +91 7488008499

✉ vaibhavron10@gmail.com

🌐 [linkedin.com/in/vaibhav-nayan](https://www.linkedin.com/in/vaibhav-nayan)

🐙 github.com/vaibhav-nayan



Education

Indian Institute of Technology (Indian School of Mines), Dhanbad

Expected May 2025

Bachelor of Technology in Electrical Engineering

Dhanbad, Jharkhand

- **Relevant Coursework:** Computer Programming (C and C++), Data Structures and Algorithms (C++), Numerical Methods, Probability and Statistics, Introduction to Blockchain Technology (C++), Introduction to Cryptography, Graph Algorithms (C++), Microprocessors and Microcontrollers, Analog and Digital Electronics, Control Systems Modeling (MATLAB), Power Electronics, Signals and Systems, Network Theory

Chinmaya Vidyalaya

2020 – 2021

Class XII (Grade: 91%)

Bokaro, Jharkhand

DAV Public School, Barora

2018 – 2019

Class X (Grade: 90.1%)

Dhanbad, Jharkhand

Experience

Apiero-Medica

May 2024 – Jul 2024

Fullstack Developer Intern

Bhopal, Madhya Pradesh

- Collaborated on all stages of the Software Development Lifecycle, including design, development, and deployment.
- Implemented secure login systems using OAuth, enhancing user authentication reliability.
- Optimized REST APIs, improving request handling efficiency by 20%, using Node.js and Express.js.
- Streamlined database queries with MongoDB, leading to a 15% improvement in application performance.
- Presented regular progress updates to stakeholders, improving team communication and project alignment.

Projects

Hotel Booking App - Hosaana | *MongoDB, Express.js, Node.js, React.js*

[Link](#)

- Developed a full-stack hotel booking application integrating React.js for the frontend and Node.js/Express.js for the backend.
- Optimized database interactions with MongoDB, enabling secure and efficient storage of hotel and user data.
- Built an admin panel for hotel management tasks, improving operational workflows by 30%.
- Designed a scalable architecture, supporting 10,000+ concurrent users and seamless comparison features.

Gmail-Clone | *React.js, JavaScript*

[Link](#)

- Developed a fully functional Gmail clone with inbox, email composition, and threading features.
- Created a responsive user interface with React.js, improving cross-device accessibility by 25%.
- Integrated state management for smooth navigation and enhanced user experience.

Sorting Visualizer | *JavaScript*

[Link](#)

- Built an interactive tool to visualize sorting algorithms (Bubble Sort, Quick Sort, Merge Sort) to aid algorithm comprehension.
- Implemented features like adjustable speed and customizable input sizes, increasing user engagement by 40%.
- Ensured scalability and maintainability by adhering to clean coding practices.

Technical Skills

Languages: C++, Python, JavaScript (ES6+), TypeScript, BASIC, HTML5, CSS3, C#, SQL

Frontend Technologies: React.js, Next.js, Angular, Tailwind CSS, HTML5, CSS3, Websockets, Recoil, User Experience (UX) Design

Backend Technologies: Node.js, Express.js, Prisma ORM, Zod, Redis, Web3, Blockchain, PostgreSQL, MongoDB, SQL, Scalable System Design

DevOps and Tools: Git, GitHub, Docker, Kubernetes, Prometheus, Grafana, AWS (EC2, S3, CDNs), CI/CD pipelines, Turborepo, Postman, npm, Linux (Ubuntu), Git Bash, Debugging and Optimization

Concepts: Data Structures and Algorithms, Object-Oriented Programming (OOP), REST APIs, Common Design Patterns, Architecture Patterns, Computer Networks, Operating Systems, Database Management Systems (DBMS), Scalability, Computer Science Fundamentals

Interpersonal Skills: Cross-functional Collaboration, Effective Communication, Time Management, Adaptability, Mentorship, Critical Thinking, Decision-Making, Empathy, Leadership, Conflict Resolution

Achievements

- **Second Runner-Up** (out of 23 IITs) in the PhotoStory competition at Inter IIT Cultural Meet 6.0, showcasing creative storytelling and photography skills.
- Secured sponsorship worth **1,00,000+** for FotoMela'23 by successfully reaching out to sponsors and negotiating partnerships.
- Solved over **500 problems** on LeetCode, achieving proficiency in Data Structures and Algorithms.

Social Engagements

Design Head: Collaborated on creative projects for **FotoFreaks**, aligning designs with web and industry trends.

Volunteer: Mentored underprivileged children at **Kartavya**, enhancing communication skills and social impact.

Sports Participation: Actively engaged in **badminton, chess, and football**, fostering teamwork and collaboration.