

SUMIT SAHU

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🌐 [LinkedIn](#)

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Education

Indian Institute of Information Technology Gwalior

July 2023 – July 2027

Bachelor's of Technology in Computer Science and Engineering

Experience

Techori

May 2025 – July 2025

Backend Intern — Team Lead

Remote

- Directed multiple cross-functional teams to deliver diverse client projects using **Next.js** and the **MERN stack**, overseeing the full SDLC from architectural design to production.
- Implemented granular **Role-Based Access Control (RBAC)** using **JWT**, architecting distinct permission tiers for Admin, HR, and User roles to secure sensitive data across platforms.
- Architected hybrid database solutions using **MongoDB** and **Firebase**, leveraging real-time data synchronization and cloud storage for high-concurrency applications like **Rojgar Setu**.
- Engineered **AI-driven modules** and optimized frontend performance in Next.js, utilizing **Server-Side Rendering (SSR)** and complex animations to improve SEO and user retention.
- Orchestrated application deployment on **AWS**, managing cloud infrastructure, environment variables, and CI/CD workflows to ensure 99.9% uptime and global scalability.

Bluestock Fintech

Feb 2025 – April 2025

Software Development Intern — Team Lead

Remote

- Led a team of 10+ developers to deliver a production-ready **MERN stack IPO Web Application**, managing the SDLC and maintaining code quality through rigorous PR reviews.
- Engineered scalable **Node.js/Express** APIs featuring secure authentication and optimized routing for high-traffic financial modules (Pricing, CMP Updates, Listing Gains).
- Architected relational **MongoDB** schemas with indexing to handle large-scale financial datasets and secure document storage.
- Executed comprehensive API testing via **Postman**, identifying bottlenecks and reducing error rates by 30% through systematic debugging and middleware optimization.

Projects

CloudSpend – Cloud Cost Optimizer | MERN, AWS/Azure, Docker, LangChain, RAG, Vector DB

Nov 2025 – Dec 2025

- Developed an AI-powered cloud cost optimization platform for AWS/Azure billing analysis with automated rightsizing suggestions.
- Built interactive dashboards for real-time cost analytics, usage spikes, reserved instances, and resource heatmaps.
- Implemented anomaly detection to flag abnormal spend and identify idle/overprovisioned services — reducing cost significantly.
- Integrated RAG assistant using embeddings + Vector DB to answer cloud configuration queries contextually.
- Containerized app with Docker + CI/CD pipelines to ensure scalable deployment and faster updates.

RojgarSetu – Employment Platform | MERN, Redux Toolkit, JWT, SSR, Oracle DB

May 2025 – July 2025

- Developed a full-stack employment platform used by **1000+ students**, featuring dedicated role-based dashboards for Admin, Employer, and Candidate management.
- Implemented robust authentication using **JWT + HTTP-only cookies**, enabling secure role-based access control (RBAC) and session persistence.
- Designed and validated relational data models using **SQL** (joins, indexing, normalization), incorporating **Oracle DB**-style schema architecture for enterprise-grade scalability.
- Integrated Cloudinary for optimized file uploads, achieving 98% preview accuracy and reducing media upload latency by **40%**.
- Improved frontend rendering speed by **90%** through the implementation of Server-Side Rendering (SSR), efficient caching, and optimized API responses.
- Built a real-time analytics dashboard to monitor platform engagement and hiring activity using advanced aggregation pipelines.

NextMeet – Video Conferencing App | React, Node.js, WebRTC, Socket.io

Aug 2025 – Sep 2025

- Engineered a multi-user real-time video conferencing platform using WebRTC with peer-to-peer media streams.
- Implemented a **Socket.io** signaling server for ICE negotiation, improving connection stability by 35%.
- Added instant A/V controls, participant synchronization, and dynamic room management.
- Integrated Firebase Authentication for secure, persistent sessions across devices.
- Optimized the UI using MUI + Tailwind, improving performance in low-bandwidth conditions.

Technical Skills

Languages: C/C++, Java, Python, JavaScript (ES6+), TypeScript, SQL

Frameworks & Libraries: React.js, Next.js, Node.js, Express.js, Flutter, React Native, Tailwind CSS, Bootstrap

Databases: MongoDB, PostgreSQL, MySQL, Firebase, Oracle DB

Cloud & DevOps: AWS (EC2, S3, Lambda), Docker, Vercel, Netlify, Render, GCP (Basics)

GenAI & Specialized: Retrieval-Augmented Generation (RAG), LangChain, OpenAI API, Vector DBs, Prompt Engineering

Tools: Git, GitHub, Postman, Notion, VS Code, RESTful APIs, JWT Auth

Concepts: DSA, System Design, OOPS, DBMS, OS, Computer Networks, Scalability, Performance Optimization

Coding Profile

- **LeetCode:** Highest Rating: **1414+** (Profile Link)
- **Github:** **600+** **contributions:** (Profile Link)

Achievements

- **DSA Proficiency:** Solved **700+** data structures and algorithms problems across **LeetCode**, **Codeforces**, **CodeChef**, and **GFG**, demonstrating strong problem-solving and logical reasoning skills.
- **Scholarships:** Awarded the prestigious **Reliance Foundation Scholarship** and the **Merit Cum Means (MCM) Scholarship** for consistent academic excellence and potential.
- **Competitive Programming:** Secured 1st round qualification in the **Smart India Hackathon**, **Adobe Hackathon**, and **Algo-University** coding challenges, outperforming thousands of participants globally.
- **Robo Race Runner-up:** Achieved 2nd place in the Robo Race competition at **Infotsav (ABV-IIITM Gwalior)**, competing against national-level engineering teams.
- **Technical Leadership:** Successfully spearheaded over **5+** **production-level projects** as a Team Lead across multiple internships, maintaining a 100% deadline compliance rate.

Extracurricular Activities

- **Sangillence (Founder/Lead):** Spearheading a nationwide olympiad initiative to move beyond traditional grading. Developed an **AI/ML-based assessment engine** to analyze response patterns and build holistic student profiles focusing on reasoning, creativity, and emotional intelligence (sangillence.com).