

Vikash Kumar

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Professional Summary

Computer Science Engineering student (CGPA: 9.43/10) specializing in Full Stack Development (MERN), Backend Systems, and Automation Architecture. Experienced in designing scalable Node.js and MongoDB applications with REST APIs, webhook integrations, and JWT-based authentication. Research exposure in Blockchain systems at IIT Patna with focus on distributed consensus and smart contracts.

Education

National Institute of Technology (NIT), Mizoram 2023 - 2027
B.Tech in Computer Science and Engineering
CGPA: 9.43/10

BSEB (Intermediate of Science), Patna 2022
Percentage: 90.2%

Technical Skills

Languages: C, C++, JavaScript, Python, SQL, Solidity
Frontend: React.js, HTML5, CSS3, Tailwind CSS
Backend: Node.js, Express.js, REST APIs, JWT Authentication
Databases: MongoDB, MySQL, PostgreSQL
Concepts: DSA, RBAC, Webhooks, Distributed Systems, Blockchain Fundamentals

Experience

Software Development Intern (Backend & Automation) Jul 2025 - Jan 2026
Nandighosh RoadX Motors Pvt. Ltd.

- Built a production-grade WhatsApp automation system using Node.js and MongoDB handling 500+ monthly interactions.
- Reduced system latency by 40% through webhook-based WhatsApp Cloud API integration.
- Developed lead-qualification chatbot decreasing manual support workload by 30%.
- Implemented secure REST APIs using JWT and Role-Based Access Control (RBAC).
- Optimized MongoDB indexing strategy to improve concurrent query efficiency.

Blockchain Research Intern Jun 2024 - Jul 2024
Indian Institute of Technology (IIT), Patna

- Studied distributed consensus algorithms including Proof-of-Work and Proof-of-Stake mechanisms.
- Analyzed smart contract architecture and gas optimization techniques in Ethereum.
- Evaluated blockchain security risks including reentrancy and double-spending scenarios.
- Explored decentralized application (DApp) workflows and transaction validation lifecycle.

Projects

SELLzy | E Commerce Platform | React, Node.js, MongoDB

- Developed secure full-stack e-commerce platform with authentication, cart management, and order processing.
- Designed RESTful backend APIs with protected routes and JWT-based authorization.
- Implemented MongoDB Aggregation Pipelines to optimize search and dynamic filtering performance.

Teach With Tech | Real-Time Monitoring System | Node.js, Express

- Built role-based administrative dashboard with live audio verification and GPS tracking.
- Engineered scalable REST APIs to process continuous real-time data streams from client devices.
- Designed multi-level access control system for administrators, principals, and monitoring authorities.

Achievements

- NCC Air Wing C Certificate | Demonstrated leadership, discipline, and teamwork.
- Cybersecurity Analyst Simulation (Forge, 2024) | Worked on phishing detection and risk assessment workflows.
- Academic Excellence — Maintained 9.43 CGPA ranking among top department performers.