

Abhinav Kumar

Patna, India

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Education

National Institute of Technology, Patna	2023 – 2028
B.Tech + M.Tech in Computer Science and Engineering (Cyber Security)	CGPA: 8.0 / 10.0
Senior Secondary (Class XII), CBSE	2021
Percentage: 90.8%	
Secondary (Class X), CBSE	2019
Percentage: 95%	

Experience

GYB Club, NIT Patna	Remote
<i>Web Development Co-Lead</i>	Mar 2024 – Sep 2025
<ul style="list-style-type: none">Led development of scalable MERN stack web applications with modular frontend and backend architecture.Designed secure RESTful APIs implementing JWT-based authentication and RBAC for role-specific access.Implemented backend validation, error handling, and audit logging to track user actions and system events.Developed reusable React components and optimized MongoDB queries to improve performance and maintainability.Coordinated with team members using Git-based workflows, reviewing code and ensuring timely feature delivery.	

Projects

AI-Powered Study Platform (Web + GenAI)
<i>MERN Stack, GenAI APIs, JWT, RBAC, MFA</i>
<ul style="list-style-type: none">Built an AI-driven study platform enabling users to upload learning material and receive AI-generated summaries, explanations, and practice questions.Secured the platform using JWT authentication, RBAC, and Multi-Factor Authentication (MFA) for students and administrators.Designed audit logs to monitor uploads, AI usage, and assessments, improving transparency and reliability.Engineered scalable REST APIs and optimized database schemas to support concurrent users.
System Monitoring & Automation Tool (Python)
<i>Python, Scheduling, Logging</i>
<ul style="list-style-type: none">Developed Python automation to monitor system metrics, process logs, and generate scheduled reports.Implemented structured logging and audit trails with alerting for failures and anomalies.
Secure Smart Parking Android Application
<i>Android, REST APIs, JWT, RBAC</i>
<ul style="list-style-type: none">Built an Android application for real-time parking discovery and booking.Secured backend APIs using JWT, RBAC, and OTP-based verification.

Technical Skills

Languages: Java, C++, JavaScript, TypeScript, SQL
Frameworks: React, Next.js, Express.js, Tailwind CSS
Cloud & Databases: AWS, MongoDB, MySQL
Core CS: Data Structures & Algorithms, OOP, OS, DBMS

Positions of Responsibility

Web Development Co-Lead — Web & Coding Club, NIT Patna	2024 – Present
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Achievements

- Knight @ LeetCode** (1875), **Pupil @ Codeforces** (1228), **3-Star @ CodeChef**
- Selected for **Adobe Hackathon** among **200,000+ participants** (Top 0.5%).
- Solved **1,000+ DSA problems** across LeetCode, Codeforces, AtCoder, CSES, and contests.