

Amit Kumar

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Professional Summary

Computer Science undergraduate with research experience at IIT Patna and hands-on expertise in Software Engineering, Full-Stack Development, Blockchain, and Distributed Systems. Experienced in designing scalable web applications, REST APIs, decentralized applications, and smart contract solutions using React.js, Next.js, Node.js, TypeScript, Hyperledger Fabric, PostgreSQL, MongoDB, Docker, and AWS. Strong foundation in Data Structures and Algorithms, Object-Oriented Programming, DBMS, and Computer Networks.

Education

Nalanda College of Engineering, Chandi (Nalanda) Sep 2023 – Present
B.Tech in Computer Science and Engineering CGPA: 7.43

Government Polytechnic Gulzarbagh, Patna Aug 2019 – Jul 2022
Diploma in Computer Science and Engineering CGPA: 8.11

Technical Skills

Languages: Python, JavaScript, TypeScript, Go, SQL, HTML, CSS, JSON

Frontend: React.js, Next.js, Tailwind CSS, Vite

Backend: Node.js, Express.js, REST APIs, JWT, WebSockets

Blockchain & Distributed Systems: Hyperledger Fabric, Smart Contracts, Go Chaincode, IPFS, Distributed Systems

Databases: PostgreSQL, MongoDB, CouchDB

Cloud & DevOps: Docker, AWS

Tools: Git, GitHub, Postman, Cloudflare, Netlify, Vercel

Core CS: Data Structures and Algorithms, OOP, DBMS, Computer Networks, Operating Systems

Professional Experience

Museiac | Full-Stack Developer | Link Feb 2026 – Apr 2026

- Architected and developed a scalable music platform using **Next.js, Node.js, TypeScript, and PostgreSQL**, delivering high-performance frontend interfaces and optimized backend APIs.

Wireless Communication Research Lab, IIT Patna | Web Developer | Link Nov 2025

- Engineered and deployed the official academic portal for Prof. Preetam Kumar, centralizing 5G/6G research publications and laboratory infrastructure.

PhotoFinder | Lead Developer | Link Jul 2025 – Aug 2025

- Engineered an AI-powered event photo distribution platform using facial recognition algorithms for high-volume image processing and secure photo delivery.

Thermal and Fluid Transport Laboratory, IIT Patna | Web Developer | Link Dec 2024

- Architected and deployed the official laboratory portal using modular frontend components to ensure responsive design and cross-browser compatibility.

Mechanical Engineering Department, IIT Patna | Web Development Intern | Link May 2024

- Spearheaded the end-to-end development and deployment of the official department website while ensuring accessibility and responsive design standards.

Movies India & Group | Freelance Web Developer | Link Feb 2024

- Developed a mobile-first event management platform using **React.js, Tailwind CSS, and JavaScript** to improve client engagement and lead generation.

Technical Projects

Sugarcane Supply Chain Management using Hyperledger Fabric | Research Project IIT Patna | GitHub Apr 2026 – Present

- Developing a blockchain-based agricultural supply chain platform using **Hyperledger Fabric, Go Chaincode, CouchDB, IPFS, Docker, and JWT** to enable secure multi-organization procurement, logistics, payment automation, IoT-based crop monitoring, and QR-based traceability.

Blockchain-Based Land Registry and Automated Mutation System | GitHub Mar 2026 – Apr 2026

- Developing a tamper-proof land registry platform using **React.js, Node.js, PostgreSQL, and Hyperledger Fabric**, implementing smart contracts, automated mutation workflows, and secure ownership management.

FedChain: A Secure Blockchain-enabled Federated Learning Network | Research Intern, IIT Patna | GitHub Jun 2025 – Jul 2025

- Designed and implemented a blockchain-enabled federated learning framework using **PyTorch, FedAvg, and peer-to-peer networking** for decentralized voice recognition, improving privacy, robustness, and Byzantine fault tolerance.