

# Sudhir Kumar

Patna, Bihar

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## Education

**Bihar Engineering University, Patna**  
B.Tech in Computer Science and Engineering

2021 – 2025  
CGPA: 8.02

## Work Experience

**Software Development Trainee**  
QSpiders, Noida

June 2025

- Training in Full Stack Development on MERN stack (MongoDB, Express.js, React.js, Node.js).
- Practicing RESTful API development, Authentication & Authorization, and database.
- Regularly solving Data Structures and Algorithms problems using Java on LeetCode.
- Exploring Next.js and Generative AI concepts with practical project implementation.

## Projects

**MediConnect AI – Intelligent Healthcare SaaS Platform** 2026  
Tech Stack: React.js, Node.js, Express.js, MongoDB, Socket.IO, JWT, Razorpay, Gemini API

- Developed a role-based healthcare SaaS platform with dedicated dashboards for users, doctors, and administrators.
- Enabled Razorpay payment gateway with webhook-based appointment confirmation and transaction validation.
- Built AI-powered medical report generation and analysis using Gemini API, with structured report storage and history management in MongoDB.
- Implemented real-time doctor-patient chat using Socket.IO and planned Retrieval-Augmented Generation (RAG) chatbot integration for contextual medical assistance.

**ChatSphere – Real-Time Chat Application** 2025  
Tech Stack: React.js, Node.js, Express.js, MongoDB, Socket.IO, JWT, Nodemailer

- Integrated a full-stack MERN chat application with secure JWT-based Authentication.
- Executed OTP-based email verification using Nodemailer and bcrypt password hashing.
- Designed real-time one-to-one messaging using Socket.IO with efficient state management.

**Smart City Management System** 2025  
Tech Stack: MongoDB, Express.js, React.js, Node.js, REST API

- Built a complaint management portal using MERN stack with secure CRUD operations.
- Integrated RESTful APIs and protected routes using JWT-based Authentication.
- Structured database schema for optimized query handling.

## Technical Skills

**Languages:** JavaScript (ES6+), Java.

**Frontend:** React.js, Next.js, HTML5, CSS3, Tailwind CSS, Bootstrap.

**Backend:** Node.js, Express.js, RESTful API Development, Authentication & Authorization, Role-Based Access Control (RBAC), Webhook Handling.

**Database:** MongoDB (Schema Design, CRUD Operations), Supabase.

**Deployment & Tools:** Git (Version Control), GitHub, Postman, Render, Vercel, Netlify.

**Core Concepts:** Full Stack Development, API Integration, Generative AI (RAG Basics).

## Certifications

- Career Essentials in Generative AI – Microsoft & LinkedIn Learning
- Full Stack Web Development – PW Skills

## Extra Curricular

- 2+ years of blogging and SEO experience.
- Winner of the 11th Founder's Fusion Ideathon.