

# Raunak Kumar Jha

INDIAN INSTITUTE OF TECHNOLOGY GUWHATI

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## Summary

Enthusiastic Full Stack Developer with hands-on experience in building web applications using React, Node.js, and MongoDB. Proficient in Python, C++, and JavaScript with a strong understanding of both frontend and backend development. Passionate about problem-solving, clean code, and continuous learning through real-world projects and certifications.

## Education

### Gandhinagar Institute of Technology

Bachelor's of Computer Science and Engineering  
Aug, 2024 - Aug, 2028

### Indian Institute of Technology Guwhati

Minor degree in computer science domain.  
Sep, 2024 - Sep, 2025

## Technical Skills

C++, Python, HTML5, CSS3, Tailwind CSS, Bootstrap, React.js, Next.js, Node.js, Express.js, Flask, Django, MySQL, MongoDB, Docker, Kubernetes, AWS, Git, GitHub, Firebase, Figma, Photoshop, REST APIs, Web Services, Kafka

## Additional Skills

Version Control, API Integration & Testing, Cross-Functional Team Collaboration, Code Optimization & Refactoring

## Certifications

- Certified Web Professional-Web Developer
- C++ Development Certified Professional
- Google IT Automation with Python – Coursera








## Projects

### Hospital Management System

Jun, 2025 - Jul, 2025

<https://github.com/raunak0400/Hospital-Management-System>

Tech Stack: Flask, MongoDB, React.js, Tailwind CSS, JWT, REST API Role-based hospital app using Flask, MongoDB, and React with JWT auth, patient CRUD, and search features.







-  Implemented JWT Authentication for secure, role-based access control (Admin, Nurse, Receptionist).
-  Built RESTful API using Flask with proper validation, error handling, and security practices.
-  Integrated MongoDB with efficient indexing and search with pagination to handle large datasets.
-  Developed a modern, responsive frontend using React and Tailwind CSS for a seamless user experience.
-  Designed an admin panel to manage all users, excluding sensitive data like passwords and MongoDB \_id.
-  Implemented CRUD operations for patient data with real-time updates and access control.
-  Planned for scalability by modularizing backend routes and separating logic for each user role.

### CXR (Sixer): Comment-Driven Code Editor

Jan, 2025 - Feb, 2025

<https://github.com/raunak0400/Flask-CXR>

AI-powered code editor built with Flask and JavaScript that converts user-written comments into code using CPGI (Comment Programmer Generative AI). Supports multiple languages, analyzes and corrects code, and provides downloadable outputs.

-  Built CPGI logic engine to convert plain-language comments into functional code across multiple programming languages.
-  Developed a Flask-based backend to handle code analysis, transformation, and response generation.
-  Designed a modern UI with JavaScript and HTML/CSS supporting theme toggle, language selection, and real-time output.
-  Added support for code correction with inline suggestions and sample output display.
-  Enabled code download in proper language-specific formats via front-end integration.
-  Implemented "Guide" and "Other Language" features for enhanced user flexibility.