

AYUSH KUMAR RAJAK

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EDUCATION

Indian Institute of Information technology

Bachelor of Technology Computer Science

Bhopal, Madhya Pradesh

Aug 2023 - Present

Relevant Coursework: Data Structures and Algorithms, Object Oriented Programming

EXPERIENCE

DocPlus

Full Stack Development Intern [certificate](#)

Noida, Remote

May 2025 – Jul 2025

- Engineered DocPlus Doctor App, optimizing performance by 20%.
- Managed backend on Azure with secure microservices architecture for scalability.
- Implemented real-time appointment scheduling and notification modules, improving user experience and reducing manual tasks.

Freelance Full-Stack / Backend Developer

Aug 2024 – Present | Remote

- Built full-stack web applications using React, Node.js, Express, and MongoDB/PostgreSQL for client projects.
- Designed and deployed secure REST APIs with JWT authentication, role-based access, and validation.

PROJECTS

High-Performance E-Commerce Backend Architecture | React.js, Redux / Context API, Node.js, Express.js, MongoDB

[Github](#)

- Built a full-stack e-commerce platform with a scalable Node.js + Express backend, secure JWT authentication, optimized API performance, and MongoDB database modeling.
- Developed responsive React UI, implemented cart/checkout workflows, and integrated REST APIs for smooth end-to-end functionality.

Real-Time Messaging & Notification Service | React (JSX + JavaScript) , CSS , Vite , Node.js / npm , Appwrite

[Github](#)

- Developed a real-time chat application using Appwrite's backend and WebSocket-based messaging for low-latency communication.
- Managed project structure, environment variables, and API integrations while ensuring efficient frontend rendering with React and Vite.

Scalable Task Workflow Management System | React.js, Vite, Tailwind CSS, Node.js

Express.js, MongoDB + Mongoose, Socket.io (real-time communication), JWT authentication

[Github](#)

- Built a collaborative project management tool with a backend supporting real-time task updates (Socket.io), user authentication (JWT), and optimized MongoDB queries.
- Designed REST APIs, implemented role-based access, and ensured reliable synchronization between users through WebSocket events.

SKILLS

Backend & Databases:	Node.js, Express.js, REST APIs, WebSockets, MongoDB, Mongoose, PostgreSQL, Redis, Microservices, Caching, Rate Limiting, Queues (BullMQ - Basic), Authentication (JWT, OAuth 2.0)
DevOps & Tools:	AWS (EC2, S3, IAM - Basic), Docker (Basic), NGINX, PM2, GitHub Actions (CI/CD), Postman, Thunder Client, Git, GitHub
Frontend (Secondary):	React.js, Redux Toolkit, Vite, Next.js, Tailwind CSS, Bootstrap
Programming Languages:	JavaScript (ES6), Python, Java, C/C++, SQL
Database Optimization:	Indexing, Query Optimization, Schema Design

ACHIEVEMENTS AND RESPONSIBILITY

- Designed scalable backend architectures handling high read/write operations Implemented secure JWT authentication, role-based access, token refresh blacklist.
- Attained a top 10 position in the Algo University Contest among the 1000 participants
- Led outreach initiatives, building collaborations and increasing engagement through strategic communication in codame club.
- Secured a position among the top 3.5 percent out of staggering 4.5 lakh registered participants in Flipkart Grid 5.0