Abhishek Kumar

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Education

Bachelor of Technology in Computer Science   Nov 2022 – June 2026
Indian Institute of Information Technology, Nagpur, Maharashtra

Achievements

- CodeChef Rating: 1783.
- Global ranks 103 in CodeChef Starters 131 Division 3.
- Global ranks 144 in CodeChef Starters 130 Division 3.
- Codeforces Pupil (max rating 1344).

Projects

EasyStudy: AI-Powered Learning Management System   Next.js, Node.js , AI Integration   GitHub | Live Link

- Built an AI-powered learning platform using Next.js ,React and Tailwind CSS , improving content creation speed by 25% and serving 50+ students
- Integrated Gemini AI to automatically generate study materials, quizzes, and flashcards, reducing manual content creation time.
- Developed a secure backend using PostgreSQL and Drizzle ORM to handle student data and learning resources efficiently.
- Set up authentication system and user roles to ensure data privacy and personalized learning experiences.
- Deployed on Vercel with automated testing, maintaining high availability and quick feature updates.

Sincronía: Real-Time Collaborative Code Editor — React, Node.js, Socket.IO, WebSockets, Express.js   GitHub

- Built a real-time code collaboration platform using React and Socket.IO, supporting 10+ simultaneous users with synchronized editing.
- Implemented WebSocket connections for instant code synchronization across users, reducing latency to under 100ms.
- Created an intuitive interface with code highlighting, live collaboration rooms, and real-time user presence indicators.
- Developed a Node.js/Express backend architecture to handle concurrent connections and maintain seamless real-time updates.
- Deployed and maintained the application on vercel, achieving 99% uptime for daily active users.

Nike: Landing Page — React, Tailwind CSS   GitHub

- Developed a responsive Nike landing page using React.js and Tailwind CSS.
- Created reusable components for modular design and efficient development.
- Implemented a dynamic navbar for seamless navigation and enhanced user experience.

Technical Skills

Languages: Python,TypeScript, C/C++, SQL (Postgres), JavaScript, HTML/CSS
Frameworks: React.js, Node.js, Material-UI, Next.js, Tailwind CSS
Developer Tools: Git, Docker, GitHub
Tools/Platforms: Express, NextAuth, Radix-UI/Themes, MongoDB

Key Courses Taken

Core Computer Science: Data Structures, Algorithms, Object-Oriented Programming, Computer Organization , Architecture, Computer Networks , Database Management Systems and Operating Systems.
Mathematics: Linear Algebra, Basic Calculus, Discrete Mathematics, Probability and Random Processes