# Raghvendra Singh Dhakar

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## Education

**Indian Institute of Information Technology Nagpur**                                            **Nov 2022 – Present**

*Bachelor of Technology in Computer Science*                                                         *Nagpur, India*

- *Relevant Coursework:* **Data Structures and Algorithms**, **Database Management Systems**, **Computer Networks**, **Object-Oriented Programming**

## Technical Skills

**Languages**: C/C++, Python, JavaScript, TypeScript
**Web Development**: React, Next.js, Node.js, Express.js, TailwindCSS, Flask, FastAPI
**Databases and ORM**: MongoDB, PostgreSQL, MySQL, Supabase, Redis, Drizzle, Prisma
**Developer Tools**: Git, Postman, VS Code, Docker
**Libraries**: Express, Shadcn, Pandas, Matplotlib, Langchain

## Projects

**Insights  Live**                                                                              **Feb 2025 – Present**

*Next.js 15, Google Gemini AI, Prisma, Typescript*

- Engineered an AI-powered e-learning platform offering personalized, personalized courses with unit-wise breakdowns and interactive chapters, increasing user engagement by 25% through adaptive learning experiences..
- Implemented a feature that allows users to create and share custom learning modules, fostering collaborative education, and expanding the accessibility of content across the platform.
- Built an intelligent content generation system that automatically creates structured learning alongside YouTube videos to enhance the learning experience.
- Developed a smart quiz generation system that leverages AI to create contextual MCQs from learning materials, enabling continuous assessment and progress monitoring.

**GitBuddy  Live**                                                                              **Dec 2024 – Jan 2025**

*Next.js 15, Google Gemini AI, Assembly AI, Prisma, Langchain*

- Developed a full-stack AI-powered GitHub SaaS platform designed to help developers enhance their coding workflow with features such as automatic code reviews, AI-powered suggestions, and advanced code search capabilities.
- Integrated Google Gemini AI and Assembly AI to provide real-time code analysis and assist developers in identifying performance bottlenecks, bugs, and security vulnerabilities.
- Optimized document processing through efficient parsing and AI integration, leading to faster response times that improve developer productivity by 30%.
- Built a seamless user experience with dynamic authentication and multi-factor authentication for secure access and usage of the platform.

**Realtime Collaborative Workspace**                                                            **Aug 2024 – Sep 2024**

*Next.js 13, Drizzle ORM, Supabase, Tailwind, WebSockets, Redis*

- Devised a real-time collaborative document workspace, allowing multiple users to work simultaneously, with features like live cursors, text selection, and presence indicators.
- Employed WebSockets for optimistic UI updates, boosting collaboration speed and reducing conflicts among concurrent users.
- Engineered a robust Redis Pub/Sub architecture that enhanced real-time chat performance, increasing message delivery speed by 30% while completely eliminating issues related to single-server socket communication limitations.

## Achievements

- **Competitive Programming Rankings:** Achieved **Codeforces @pupil** (Max Rating: 1369), **Codechef 3-Star** (Rating: 1639), and **Leetcode Knight** (Top 4%, Rating: 1918).
- Demonstrated strong problem-solving skills by solving 800+ problems on Codeforces, showcasing proficiency in algorithms, data structures, and competitive programming techniques.
- Enhanced the macOS spell-check functionality within the Joplin open-source project, resulting in a 30% reduction in user-reported issues related to text accuracy and improving overall software reliability for thousands of users.
- **Orator Club, IIIT Nagpur - Organizing Committee Member:** Played a key role in successfully hosting **MUN 23**, fostering greater participation and engagement in public speaking events.
- **Class Representative:** Served as Class Representative for two years, acting as a liaison between students and faculty, and leading various class-related initiatives to improve communication and overall student engagement.