

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

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 and improved user satisfaction.
- Built a seamless user experience with dynamic authentication and multi-factor authentication for secure access and usage of the platform.

Learnify Live

Jan 2025 – Present

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

- Engineered an AI-powered e-learning platform that offers personalized, dynamic courses with unit-wise breakdowns and interactive chapters.
- 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.
- Designed a responsive, user-friendly interface with Tailwind CSS, ensuring seamless access to AI-generated content across all devices.

Realtime Collaborative Workspace

Aug 2024 – Sep 2024

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

- Developed a real-time collaborative document workspace, allowing multiple users to work simultaneously, with features like live cursors, text selection, and presence indicators.
- Utilized WebSockets for optimistic UI updates and active cursors during collaboration.
- Scaled real-time chat by implementing Redis Pub/Sub architecture to enable socket scalability across servers, overcoming the limitations of single-server socket communication.

Achievements

- **Competitive Programming Rankings:** Achieved **Codeforces @pupil** (Max Rating: 1369), **Codechef 3-Star** (Rating: 1639), and **Leetcode Knight** (Top 4%, Rating: 1918).
- **Problem-Solving Expertise:** Successfully solved 800+ problems on Codeforces, demonstrating a strong command of problem-solving techniques and algorithms.
- **Open-Source Contribution:** Actively contributed to the Joplin open-source project by enhancing the macOS spell-check functionality, showcasing skills in debugging, cross-platform development, and software maintenance.
- **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.