Harsh Rai

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Education

Indian Institute of Information Technology, Gwalior   Jul. 2022 – Expected Jun. 2026
Bachelor of Technology in Computer Science   *Madhya Pradesh, India*

Relevant Coursework

- Data Structures
- Algorithms Analysis
- Artificial Intelligence
- Operating System
- Software Engineering
- Database Management
- Computer Networks
- Computer Architecture

Experience

Problem Solving Achievements

- Solved **160+** questions on **LeetCode** | Profile
- Solved **180+** questions on **GeeksforGeeks** | Profile

Freelance Web Developer   Mar. 2024
Luco Homes | Repository   *Remote*

- Established a website for a **startup** specializing in pre-engineered homes, demonstrating the company's products.
- Incorporated a built-in blog writer, allowing seamless publication of new blogs directly from the admin dashboard.
- Decreased load time by **50%** using **React lazy loading**, enhancing user engagement and insight.
- Empowered administrators to add, hide, and unhide FAQs and testimonials, increasing site flexibility.

Web Developer and Designer   Jul. 2023 - Present
Abhigyan Abhikaushalam Students' Forum | Homepage   *Gwalior, India*

- Developed a visually stunning website showcasing the institute's annual magazine, "Abhishar," using HTML and CSS, attracting over **200 engaged student readers** and increasing online magazine views by **45%**.
- Additionally, conceptualized and executed a visually compelling **68**-page annual magazine for the institute. Leveraged **Adobe Photoshop** to craft captivating layouts and graphics, overseeing the distribution of **400 copies**.

Programming Skills

Languages: TypeScript, JavaScript, C++, C, Python, HTML, CSS
Frameworks: React, Next.js, Node.js, Express.js, Redux, Zustand
Tools and Platforms: HTML, CSS, Vercel, Netlify, Firebase, MongoDB, Git, Prisma, TailwindCSS, PlanetScale, Appwrite, Clerk
Databases: MySQL, PostgreSQL, SQLite
Other Technologies: REST API, SQL

Projects

Mood Tracker: A Journal App | *Next.js, Prisma, TypeScript, PlanetScale, OpenAI*   Dec. 2023

- Developed a specialized journaling application designed to analyze and track emotional trends over time, serving as a personal journal where users can document their thoughts, feelings, and experiences, providing insightful analyses of users' emotional patterns.
- Implemented authentication with **Clerk** for secure user management, incorporating features for updating and deleting accounts.
- Employed **Prisma** and **PlanetScale** for robust database management, maintaining records of users, journals, and their analyses.
- Utilized the **OpenAI** API through **Langchain** to access advanced analysis features for user-generated journals.
- Integrated the **Recharts** package to visualize users' mood trends based on the analysis of their journals.

Scribble - A Note Managing App | *React, TypeScript, CSS, Appwrite, TipTap Editor*   Jan. 2024

- Developed a note managing app enabling users to create, organize, analyze, and manage notes using **Appwrite APIs**.
- Engineered an advanced note editor using **Tiptap Editor**, incorporating text formatting, image embedding, and list creation capabilities to streamline note creation.
- Implemented functionality using **Tiptap extensions**, allowing users to store various media types within their notes, including YouTube videos, PDFs, and code samples, thereby enhancing the richness and versatility of the note content.
- Integrated an AI chatbox feature using the **OpenAI model** to provide users with assistance and answer queries, thereby enhancing the overall user experience and accessibility of the application.

Achievements / Positions of Responsibility

- Conducted **40+** techno-managerial events as a core member of Abhigyan Abhikaushalam Students' Forum.
- Instructed and guided more than **300+ students** within the institute about the domains of programming and web development.