Harshita Patidar

Computer Science and Engineering (B.Tech)

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Portfolio

EDUCATION

Year	Degree/Exam	Institute	CGPA/Marks
2027	B. Tech (CSE)	IIT Bhilai	8.45 / 10
2023	12th (MPBSE)	BCM Higher Secondary School, Dewas, MP	92%

PROJECTS

OmniPrep – Voice-Based Interview Preparation Platform   **July 2025**
- Tech Stack: React.js, Node.js, Express.js, MongoDB, Clerk, OmniDimension Agent, GROQ API, Nodemailer
- Built a full-stack platform to help students prepare for interviews with voice-based mock sessions powered by the OmniDimension Agent.
- Developed a practice module and interactive mock interview section with real-time soft-skill feedback and conversational AI.
- Integrated a resume analyzer using the GROQ API, delivering actionable insights and structured improvement suggestions.
- Built an interview scheduler with email reminders via Nodemailer and integrated a job search tool using external APIs.
- Secured user authentication with Clerk and developed a responsive, intuitive UI for seamless user experience.

PitchPerfect AI - AI-based Pitch Analysis Platform   **June 2025**
- Tech Stack: React.js, Tailwind CSS, Express.js, Node.js, Google Gemini API, Tesseract.js
- Built an intelligent pitch analyzer that generates detailed AI-driven reports covering clarity, innovation, market, team, and more.
- Designed an interactive investor simulation using Google Gemini API, allowing users to experience realistic Q&A and receive investment decisions from a virtual AI investor.
- Enabled multi-format input support (PDF, PPT, Images) with OCR using Tesseract.js, making the tool highly accessible and inclusive.
- Ensured secure handling of uploads and used Winston for detailed activity logging and traceability.
- Built an intuitive and responsive interface with Tailwind CSS, optimized for user engagement and accessibility.

E-learning Platform   **Jan 2025 - March 2025**
- Tech Stack: React.js, Express.js, Node.js, MongoDB, API Integrations: Open Trivia API, YouTube API
- Engineered a modular, full stack learning platform enabling personalized content delivery via YouTube API and gamified quizzes via Open Trivia API.
- Integrated an AI-powered chatbot to assist learners in real-time, offering guidance, navigation, and content support.
- Implemented JWT-based authentication and Google OAuth, ensuring secure, scalable user sessions.
- Designed RESTful APIs for clean data flow and followed Agile development practices with Git and version control.
- Ensured responsive UI/UX and modular code for scalability and maintainability.

Library Management Website   **Oct 2024 - Nov 2024**
- Tech Stack: HTML, CSS, PHP, and MySQL.
- Built a functional web-based library system for managing book inventory, user profiles, and borrowing history.
- Designed separate dashboards for administrators and users, enabling role-based permissions and clean data workflows.
- Developed secure CRUD operations for managing books, users, and transactions, ensuring integrity across MySQL-backed data.
- Focused on database normalization, responsive design, and operational efficiency

EXPERIENCE

Open Source Contributor – GirlScript Summer of Code 2025   **Jul 2025 – Present**
- Selected as a contributor for GSSoC 2025, a national-level open-source program by GirlScript Foundation.

Open Source Contributor – OpenLake, IIT Bhilai   **May 2025 – Aug 2025**
Student Database Management System Project
- Enhanced role-based access control for secure and scalable permissions.
- Redesigned whole database schema to align with updated CoSA structure.
- Developed interactive dashboards for streamlined data management.
- Implemented POR linking to connect roles with student records.
- Optimized search and edit flows for faster, more intuitive operations.

SKILLS AND EXPERTISE

Languages: C, C++, Python, JavaScript

Frontend: HTML, CSS, React.js, Next.js

Backend: Node.js, Express.js, PHP

Database: MySQL, MongoDB

Libraries: NumPy, Pandas

Tools: Git, XAMPP, Postman, Visual Studio Code, GNUPlot, LaTeX, Shell Scripting

Concepts: Data Structures and Algorithms, RESTful APIs, Object-Oriented Programming

RELEVANT COURSES

Introduction to programming, Data Structures, Discrete Mathematics, Software Tools and Technology, Design and Analysis of Algorithms, Theory of Computation, Computer Organization and Architecture.

ACHIEVEMENTS

- Ranked in the Top 3 percent (among 11,13,325 students) in JEE MAINS,2023
- Ranked in the Top 9.3 percent (among 180,372 students) in JEE ADVANCED,2023

POSITIONS OF RESPONSIBILITY

Mentor— Openlake, IIT Bhilai   **Aug 2025 - Present**
- Contributing and maintaining open-source projects while managing and organizing open-source events and initiatives.

Mentor— True Mentor   **March 2025 - Present**
- Mentoring high school students preparing for JEE, providing academic support, concept clarity, and motivational guidance.

Mentor— Vinoba Polestar Program (Raipur Administration & Open Links Foundation)   **Nov 2024 - Present**
- Volunteering as a Vinoba Polestar (VP) to mentor government school students preparing for JEE/NEET by providing academic guidance and motivational support.
- Conducting doubt-solving sessions to clarify concepts in Mathematics, Physics, and Chemistry, ensuring a strong foundational understanding.

Executive— NSS, IIT Bhilai   **June 2024 - April 2025**
- Coordinated and organized impactful sessions under the Social Department, such as a Road Safety Awareness session and an Anti-Ragging seminar, fostering awareness and responsible behavior.

Mentor— Student Mentorship Program, IIT Bhilai   **May 2024 - Feb 2025**
- Guided first-year students with academics, adapting to IIT culture.

Member—Outreach Committee, IIT Bhilai   **Nov 2023 - April 2024**