

Asif Hoda

[Linkedin](#) [Github](#) [LeetCode](#) [Codeforces](#)

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EDUCATION

- **Indian Institute of Technology, Mandi** Himachal Pradesh, India
B.Tech in Computer Science; CGPA: 8.69 Aug 2023 - Present
 - **Relevant Coursework:** Data Structures and Algorithms, Linear Algebra, Design of Algorithms, Mathematical Foundation of Computer Science, Data Science I, II, III, Deep Learning

PROGRAMMING SKILLS

- **Languages:** Python, Javascript, C++, HTML, CSS, Typescript
- **Technologies/Frameworks:** React.js, Next.js, Node.js, Express, Tailwind, REST API, MongoDB, Appwrite, Clerk, Shadcn, Socket.io, Machine Learning, Transformers, LLMs and VLMs, RAG
- **Tools:** VSCode, Linux, Github, HuggingFace

PROJECTS

RAW - A Decentralized Collaborative Literature and Artwork Creation Platform

- *TailwindCSS, React.js, Next.js, TypeScript, MongoDB, Shadcn, Socket.io, Clerk, TipTap*
[Github](#)
 - **Built a Decentralized Collaborative Platform:** Developed a platform for users to create and share stories, comics, poetry, and artwork, enabling open-source-style contributions to creative works.
 - **Engineered Real-Time Community Features:** Implemented live chat with Socket.io, interactive community sections, and a job portal to facilitate collaboration and networking among creators.
 - **Developed Secure & Custom Editing Tools:** Integrated Clerk for authentication and enhanced the TipTap editor with custom AI-powered extensions for a seamless content creation experience.

GoogleMaxPro and HogRAGger - Intelligent Search and Multi-Document Inference Pipelines

- *Python, Open-Source VLMs, HuggingFace Transformers, Web APIs, RAG, NLP*
[Github](#)
 - **Image-Based Search (Developed an AI-Powered Image Search Pipeline):** Built **GoogleMaxPro**, an intelligent image-based search system that processes user prompts to retrieve visually similar objects using open-source VLMs and web APIs.
 - **Engineered a Multi-Document Inference System:** Designed **HogRAGger**, a Retrieval-Augmented Generation (RAG) pipeline that synthesizes insights from multiple documents to deliver accurate, evidence-backed query responses.
 - **Ensured Open-Source Compliance & Real-Time Performance:** Integrated open-source models and APIs to maintain compliance while optimizing real-time search accuracy and multi-document inference speed.

XPECTO 2025

- *Prisma, Typescript, Clerk, PostgreSQL, TRPC, Tailwind, Next.js, Framer Motion, Firebase, Flutter*
[Github](#) | [Live Website](#)
 - **Engineered a Dynamic Event Registration System:** Developed a seamless platform for competition and workshop sign-ups, featuring team management, event search, and automated payment verification.
 - **Optimized Payments & Merchant Transactions:** Implemented a QR-based payment system, built an SMS verification process, and developed a Flutter-powered merchant payment app with a digital wallet and cashback system.
 - **Built a Scalable Referral & Communication System:** Designed a campus ambassador program with referral tracking and perks, along with dedicated announcement and team pages for streamlined event communication.

VOLUNTEERING

- **XPECTO '25** : Head of the Development team for XPECTO, the techfest of IIT Mandi.
- **Freelancer** : Mentor-JEE in **PhysicsWallah**