# ASHISH PRASAD

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## Education

**IIITDM Jabalpur**                                                     Nov. 2022 – Present

B-Tech in Computer Science and Engineering                             CGPA: 7.2

## Experience

**Software Engineer Intern – Fusion IIIT, IIITDM Jabalpur**            July 2024 – Apr 2025

– Contributed to a full-scale Course Management System using Django, enabling efficient ORM querying and index-optimized databases for 1000+ users.
– Migrated monolithic frontend to a modular React.js system, improving Lighthouse performance scores by 60%.

## Technical Projects

**University Website – IIITDM Jabalpur Official Website**

– Developed a high-performance, full-stack university portal using Node.js, PostgreSQL, and React.js.
– Implemented server-side rendering to reduce First Contentful Paint by 65%, resulting in faster load times and improved UX.
– Designed a fully responsive, mobile-first UI using modular components, lazy loading, and code splitting—achieving a Lighthouse Performance Score of 98/100.
– Built an intuitive Admin Console with role-based access control to enable seamless content management without modifying code.
– Applied SEO best practices, achieving 95+ Lighthouse SEO score and increasing digital outreach by 45%.

**AlphaIO – A Social Media Platform**

– Engineered a social microblogging platform inspired by modern social apps using the MERN stack (MongoDB, Express, React, Node.js).
– Integrated Socket.io for real-time chat with features like seen/unseen message status, user typing indicators, and image sharing.
– Implemented secure JWT-based authentication for session management, login, and protected routes.
– Used Cloudinary for optimized image/video storage and retrieval. Deployed the application using Render for global access.
– Live platform available at alphaio.onrender.com.

**codeArena – Competitive Programming Platform**

– Built a robust full-stack competitive coding platform supporting real-time submissions and Docker-isolated code execution environments.
– System handles 200+ code submissions per hour with 99.9% uptime, leveraging scalable containerized infrastructure.
– Implemented WebSocket-powered contest rooms and collaborative coding features to enhance interactivity—boosting user engagement by 37%.
– Developed an intelligent Python-based web scraper to auto-populate challenge problems from external repositories, expanding the platform's challenge base from 100 to 2000+.
– Deployed the system using AWS EC2, Docker, Flask, and React with persistent media storage on AWS S3.

## Skills & Interests

**Languages:** Python, JavaScript, Go, C++, TypeScript

**Developer Tools:** VS Code, Cursor, Google Cloud Platform

**Technologies/Frameworks:** Next.js, MongoDB, Prisma, Express, React, Node.js, Socket.io, Cloudinary, Clerk

**Interests:** Chess (1700 ELO on Chess.com)

## Certifications & Achievements

**Deco.Cx Global Hackathon – 6$^{th}$ Place Worldwide (2023)**: Built ultra-fast HTMX templates, competing among 1800+ teams.

**CodeTally – Runner-Up (2024)**: Built an online collaborative coding platform—fully containerized, scalable, and real-time.

**100 Days of Code: The Complete Python Pro Bootcamp** — Udemy — Oct. 17, 2024

Instructor: Dr. Angela Yu. Covered Python, DSA, and best coding practices.