

Ayush Keshari

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EDUCATION

- Indian Institute of Information Technology** Jabalpur, India
Bachelor of Technology - Computer Science Engineering; GPA: 7.8 2022 - 2026
 - Courses:** Operating Systems, Data Structures, Analysis Of Algorithms, Database Management Systems, Object Oriented Programming, Computer Networks
- St. Joseph's Sr. Sec. School** Sonebhadra, India
Class XII: 94% 2019 - 2021

SKILLS SUMMARY

- Languages:** C, C++, Python, JAVA, JavaScript, SQL
- Frameworks:** HTML, CSS, React.js, Express.js, NodeJS, TailwindCSS, Docker, AWS, Kubernetes, MongoDB
- Tools:** Git, GitHub, VS Code, Linux

EXPERIENCE

- Project Domain Lead - Fusion IIIT:** Aug 2024 - Feb 2025
 - Leading the backend development (Django) and database management (PostgreSQL) for the Fusion Project at IIITDM Jabalpur, focused on developing a comprehensive ERP website used by 2,500+ students.
 - Redesigned and optimized 25+ APIs to facilitate seamless communication between a React-based frontend and a Django backend, ensuring improved performance and scalability.
- Database Management Intern - Brainwave Matrix Solutions:** March 2025
 - Working remotely on real-world SQL challenges and database management tasks ensuring robust performance and achieving a 25% improvement in query response times and supporting over 5,000 daily transactions.
 - Demonstrated technical competence and potential by effectively applying academic knowledge to practical environments, as validated by a 30% increase in data processing speed and a 20% reduction in data retrieval time.

PROJECTS

- codeArena:** [Github](#)
 - Created an **online coding platform** for competitive programming, designed to support large-scale user activity with real-time feedback and performance metrics.
 - Phase 1:** Established a code editor on a NodeJS backend with a ReactJS frontend, securing code compilation using Docker hosted on AWS EC2. Integrated an S3 bucket to manage large datasets, enhancing user experience and security.
 - Phase 2:** Extended functionality to support contests, adding a real-time leaderboard for 1,000+ participants. Leveraged the Judge0 API to support 8 programming languages and used BeautifulSoup to automate coding problem extraction from Codeforces, reducing manual effort by 95%.
 - Phase 3:** Scaled platform for **20,000+ users** by implementing Kubernetes auto-scaling. Added WebSocket support for real-time features like coding rooms and voice chat, increasing user engagement by 25%.
- IIITDM Jabalpur's Official Website:** [Github](#)
 - Architected a high-performance web platform using NodeJs, PostgreSQL, and ReactJs, ensuring a seamless user experience with optimized rendering and API efficiency.
 - Designed and integrated a fully responsive, mobile-first UI with lazy loading, achieving a 95+ Google Lighthouse SEO score and significantly improving the institute's digital outreach.
 - Implemented an Admin Console Module empowering non-technical users to quickly update content, leading to a 70% reduction in website maintenance costs.

AWARDS

- MCM Scholar** 2022 - 2023
 - Awarded Merit-cum-Means (MCM) Scholarship by central government for being among top 10% of the batch.

CODING PROFILES

- Leetcode:** Solved 400+ coding problems with an acceptance rate of over 62% and achieved a peak rating of 1763.
- Codeforces:** Max Rating: 1255 (150+ questions)
- Codechef:** Max Rating: 1626

EXTRA CURRICULAR

- The Jagriti Club:** Participated in educating 200+ underprivileged children from villages with Jagriti (NGO at IIITDMJ).
- The Chess Club:** Active member of the Chess Club at IIITDMJ, participating in tournaments and strategy sessions.