AYUSH BANSAL

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EDUCATION

Vellore Institute of Technology, Bhopal   **2022 − 2026**
*B.Tech - Computer Science and Engineering - **CGPA** - **8.61***   *Bhopal, Madhya Pradesh*

EXPERIENCE

KodeKarma ⬈   **November 24 - June 25**
Role - Software Developer | React, Next.js, TypeScript, PostgreSQL, GraphQL, AWS SES

- Engineered a **coding platform** from scratch, serving **20,000+** monthly active users with a real-time editor for writing, executing, testing, and submitting code.
- Integrated an **AI-driven** mock interview system with Google Generative AI, allowing users to simulate interviews and receive automated, real-time feedback.
- Designed and implemented personalized **user profile management** with **5+** modules: progress tracking, social links, billing, logs, and dashboards.
- Built an **Articles** module using **partial GraphQL queries**, enabling contextual resource linking and improving performance.
- Led a **5-member** team to architect scalable database schemas and optimized backend using GraphQL, ESLint, and TypeScript—improved fetch speed by **30%** and SEO-driven discoverability.
- Integrated **AWS SES** for scalable delivery of **transactional and marketing** emails using **batch** processing with production access, ensuring zero delivery failures under rate limits.

Geekster ⬈   **February 24 - June 24**
Role - Teaching Assistant | DSA & Python

- Mentored **150+** students in mastering **Data Structures and Algorithms**, strengthening their algorithmic thinking and coding proficiency.
- Conducted **120+** doubt sessions and resolved over **1,000** queries with an average session rating of **4.75/5.**
- Boosted student engagement by **25%** through live coding, DSA workshops, and interactive teaching strategies.

PROJECTS

MockMate ⬈ | React, TypeScript, Tailwind CSS, Clerk, Firebase, Google Gen AI

- Built an **AI-powered** mock interview platform supporting real-time voice/video input and generating role-based questions using Google Generative AI.
- Delivered automated feedback reports with **AI-evaluated** responses, improving user prep efficiency by **15%**.

MingliFy ⬈ | MERN Stack, JWT, Socket.IO, Zustand, Tailwind CSS, DaisyUI

- Created a secure **real-time chat application** with 1-1 messaging using Socket.IO, JWT authentication, Zustand for state management, and a responsive UI with sub-200ms interaction latency.

TECHNICAL SKILLS

Languages: Python, Java, JavaScript, TypeScript, SQL, GraphQL
Frontend: React, Next.js, HTML, CSS, Tailwind CSS
Databases: PostgreSQL, MongoDB, MySQL
Backend: Node.js, Express.js, REST APIs, JWT Authentication
Essential tools: Git, WebSockets, AWS SES, Data Structures, Algorithms, Object Oriented Programming

ACHIEVEMENTS

- Qualified for **ICPC Asia West Regionals 2024** and represented VIT Bhopal at the Amritapuri Site.
- Solved **1100+** DSA problems across multiple platforms.
- Secured **3rd rank out of 3,500+** students in Coding Immersion Program at VIT Bhopal.
- Achieved Global Rank **64** in CodeChef Starters 111 Contest.
- Ranked **AIR 190 out of 31,000+** in LeetCode Biweekly Contest 429.
- Earned **6** Stars in DSA on HackerRank.