Ankit Singh Chouhan

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Education

Vellore Institute of Technology (VIT)   **Aug 2022 - Apr 2027**
Integrated Master of Technology in Computer Science and Engineering - CGPA: 7.87/10   *Bhopal, Madhya Pradesh*

Chaitanya Keerti Public H. S. School,   **May 2021 - May 2022**
Senior Secondary School Certificate, Class XII - Percentage: 81.4   *Roopakhedi, Madhya Pradesh*

Chaitanya Keerti Public High School,   **Apr 2019 - Apr 2020**
High School Certificate, Class X - Percentage: 90.33   *Roopakhedi, Madhya Pradesh*

Technical Skills

Programming Languages: C, C++, Java, Python, JavaScript, TypeScript, PHP
Frontend Technologies: HTML5, CSS3, Tailwind CSS, Bootstrap, React.js, Next.js, Shadcn/UI, GSAP
Backend Technologies: Node.js, Express.js, RESTful APIs
Databases: MongoDB, MySQL, PostgreSQL, Redis
Tools & Technologies: Git, GitHub, Postman, Visual Studio Code, IntelliJ IDEA, Docker
Cloud & Deployment: AWS - EC2 | S3 | IAM | Lightsail, Vercel, Render, Docker
Core Concepts: WebSockets | Socket.io, JWT Auth, OAuth 2.0, RBAC, Redis (Caching), System Design, Microservices,
  Computer Networks
AI & Generative AI: OpenAI API (GPT-4o mini, GPT-5.1 Pro), Google Gemini API, Prompt Engineering, AI-powered applications
Integrations: Razorpay, Cloudinary, Vonage API (Video Calls)

Experience

Full Stack Developer Intern – SewaStack   **July 2025 – Dec 2025**
- Developed and maintained full-stack features using React, Node.js, Next.js, PHP, and MySQL across multiple project phases, improving application performance and scalability.
- Contributed to **testing, debugging, and production deployment**, ensuring application reliability.
- Demonstrated rapid adaptability by **learning PHP within 2 days and deploying features on cPanel**, while continuing project-based contributions beyond internship.

Projects

LastMinutePreparation CBSE | *React.js, Node.js, Express.js, OpenAI, Inngest, Redis, Razorpay, AWS* | Link   **Oct 2025 - Present**
- Developed an AI-powered exam preparation platform serving **1800+ users** with **₹7,500+ revenue**, leveraging scalable full-stack architecture.
- Designed async processing using **Inngest (queue system)** and **Redis caching (Upstash)** to reduce latency and optimize performance.
- Integrated **OpenAI API** for dynamic answer generation and implemented **JWT authentication + Razorpay payments** for secure monetization.
- Applied **rate limiting (Express Rate Limiter)** with subscription-based control (auto downgrade after 30 days) and deployed on **Vercel + AWS Lightsail**.

TalkSphere – Real-Time Chat Application | *Node.js, Express.js, Socket.io, Cloudinary* | Link   **Aug 2025 – Sept 2025**
- Engineered a real-time chat system using **WebSockets (Socket.io)** enabling instant messaging, group chats, and friend request workflows.
- Developed scalable backend with **JWT authentication and Redis caching**, ensuring secure sessions and optimized performance.
- Implemented **media sharing (Cloudinary)** and admin dashboard with analytics, supporting efficient user management and activity tracking.

Coding Profile

Competitive Programming (Leetcode , GeeksforGeeks & Striver SDE Sheet**)**   **Jan 2024 - Present**
Solved 200+ Algorithmic and Data Structure Problems
- **Leetcode:** 100+ Problems.|300+ submissions | Link
- **GeeksforGeeks:** 90+ problems | Institute Rank: 2388 | Coding Score: 227 | Link
- **Striver SDE Sheet:** 150+ curated problems covering core DSA topics | Link