

ANSH SINGH

Prayagraj, India | +91 95557 51574 | ianshsingh10@gmail.com | LinkedIn | GitHub | Portfolio | Codeforces

ABOUT

Full-Stack Developer specializing in the MERN stack, Next.js, and AWS. Engineers AI-integrated web solutions, including healthcare, chatbots and real-time geospatial platforms. Published researcher in IEEE Xplore with a focus on database management systems. Develops efficient algorithms using Java, C++, and Python, applying system design and DevOps principles. Experienced in technical leadership and executing large-scale community events.

EXPERIENCE

AmasQIS.AI

Intern AI-Integrated Real Estate & GIS Platform

May 2025 – Nov 2025

Remote, India

- Built core modules for a **property search and document-verification system** serving **2,000+** monthly users, reducing invalid listings by **40%**.
- Created secure **API routes** that reduced backend response time by **30%** and increased throughput for **GIS-based queries**.
- Designed MongoDB schemas for **10,000+** **property records**, enabling faster **geospatial lookups** through optimized indexing.

The Electric Vehicle Club

Club President

Sep 2023 – Mar 2025

Sehore, India

- Directed club strategy and led a core technical team to execute **5+** technical events, engaging **1,000+** students in **EV innovation** initiatives.
- Facilitated hands-on learning by collaborating with **industry experts and faculty**, resulting in a **30%** increase in student participation in technical workshops.

SKILLS

Languages & Core: Java, C++, Python, SQL, HTML/CSS, DSA, System Design, OS, OOP

Frameworks & Libraries: MERN Stack (React, Express.js, Node), Next.js, Tailwind CSS, Flask, Zustand

DevOps & Tools: AWS (EC2, S3), Docker, Git, Vercel, Razorpay

Data & ML: MongoDB, OpenCV, scikit-learn (KNN), Pandas, NumPy, CSV

Soft Skills: Team Management, Leadership, Event Planning, Active Listening, Teamwork

PROJECTS

craVIT | Next.js 14, MongoDB, Tailwind, Zustand, Razorpay | Live | Github

Jul 2025

- Architected a full-stack **Next.js 14** application with **Role-Based Access Control (RBAC)** for users and sellers using **NextAuth.js**.
- Engineered a secure checkout system integrating **Razorpay** for payments and **Twilio** for OTP verification.
- Optimized global state management using **Zustand**, synchronizing cart data across the UI and **reducing unnecessary re-renders by 40%**.

Attendance System | Python, Flask, OpenCV, scikit-learn (KNN), Pandas, NumPy, CSV | Github

Jul 2025

- Developed an end-to-end **computer vision pipeline** using **OpenCV** and **KNN**, processing **30+ FPS** video streams with **>95% accuracy** across **50+ identities**.
- Architected a slot-aware **Flask backend** handling **100+ daily records**, enforcing **O(1)** duplicate prevention using **CSV and Pandas** validation.
- Automated model training and retraining pipelines, eliminating manual intervention and reducing user onboarding time by **~60%**.

Health Ease | Node.js, Express.js, MongoDB, React.js, AWS, Docker | IEEE Explore | Github

Apr 2025

- Published **Research**: Authored a research paper detailing system architecture and real-world impact, published in **IEEE Xplore**.
- Engineered a comprehensive web platform centralizing access to a **national hospital database** covering **200+** facilities, integrating **5 healthcare services** to streamline patient access and care coordination.
- Built a custom **AI chatbot** handling **1,500+ health queries** and a report analyzer automating **70%** of medical report analysis.

EDUCATION

VIT Bhopal University

B.Tech in Computer Science and Engineering | CGPA: 8.63

Aug 2023 – Ongoing

Sehore, India

CERTIFICATIONS & ACHIEVEMENTS

Certifications: AWS Certification Course (Intellipaat, 2025); Machine Learning(Swayam NPTEL, 2025); Programming in JAVA (Vityarthi, 2025); AI/ML (Vityarthi, 2025); Python Essentials (Vityarthi, 2024); Java Programming (Great Learning, 2023); Front End Dev (Great Learning, 2023).

Achievements: 2nd Place, Dev Inferno Hackathon; 1st Place, Face Painting (ALFRESCO).

Sports: Athletics (2 Gold, 4 Silver, 1 Bronze at school level); Football (Under 16 States).