

ANSH SINGH

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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

May 2025 – Nov 2025

Intern AI-Integrated Real Estate & GIS Platform

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

Sep 2023 – Mar 2025

Club President

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

Aug 2023 – Ongoing

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

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).