AKASH SINGH

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EDUCATION

Vellore Institute Of Technology,Bhopal   **Expected May 2026**
B.Tech - Computer Science and Engineering : ***CGPA - 8.61***   *Bhopal, Madhya Pradesh*

Army Public School No-2, Jabalpur   **2020 - 2021**
12th Class : ***Percentage - 85.2 percent***   *Jabalpur, Madhya Pradesh*

COURSEWORK AND SKILLS

- Data Structures and Algorithms
- Operating Systems
- MERN Stack
- Cloud Computing
- DBMS
- System Design Basics

PROJECTS

Car Pooling Website(Ongoing) ⧉ | (React, Tailwind CSS, Node, Express, MongoDB, JWT) **June 2025**

- Developed a dual-role web platform allowing vehicle owners to register and schedule rides while enabling students to book seats by time and location.
- Architected slot-based booking and a weekend ride module, restructured seat utilization, and reduced coordination time by **60 percent**, contributed to a more efficient booking process.
- Deployed 15+ RESTful APIs for booking, vehicle listings, and real-time availability, enabling seamless data exchange and user experience.
- Refactored backend logic and optimized MongoDB queries, reducing system latency by 30 percent and enhancing response time.

Nivodha ⧉ | (MERN Stack , JWT Auth, AWS,Bootstrap)   **April 2025- May 2025**

- Deployed a full-stack stock trading platform inspired by Zerodha, serving real-time stock data and enhancing the user experience for 95 simulated users.
- Automated capital gains reporting by integrating **a Tax and Profit or Loss Calculator**, reducing manual reporting time by 80 percent
- Engineered **Dark Mode** with 2 customizable UI themes, improved accessibility

Book-My-Doc ⧉ | (MERN Stack, JWT Auth, Razorpay (Payment), Tailwind CSS) **Jan 2025-March 2025**

- Designed a role-based appointment scheduling system for 100+ users, enabling patients to book, reschedule, or cancel appointments by doctor specialty with 15+ real-time slots.
- Enhanced **JWT-based** authentication and role segregation (patients, doctors, admins), securing 75 percent of backend APIs and user operations.
- Built an **Admin Dashboard** to manage 15+ doctors, automating approvals and eliminating manual coordination steps by 70 percent .
- Integrated **Razorpay** for online payments, achieved an 85 percent transaction success rate, supported by 20+ robust REST APIs for authentication, booking, and admin features.

TECHNICAL SKILLS

Languages: JAVA, JavaScript, SQL
Technologies/Frameworks: HTML5, CSS3, React, MongoDB,Bootstrap, NodeJS, Express, Angular (Beginner) , Streamlit
Developer Tools: VS Code,Git/Github, Canva

CERTIFICATIONS

- NPTEL Cloud Computing- Covered SaaS, PaaS,IaaS,deployment Models
- Simplilearn-Introduction to MERN Stack
- GeekForGeeks- GFG160 Days of code- DSA focused coding practice

EXTRACURRICULAR

- Conducted offline Java/DSA sessions for 20+ students,enhancing foundational programming understanding and peer learning
- NSS Member from 2023 to 2025