YASHPALSINGH PAWARA

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Jabalpur, Madhya Pradesh – 482005, India

Education

- **IIITDM Jabalpur** *Nov 2022 – Aug 2026 (Expected)*
  B.Tech – Electronics and Communication Engineering Jabalpur, India
- **Kendriya Vidyalaya Sangathan** *Aug 2020 – Jul 2022*
  Higher Secondary Education (CBSE) **PCMB** Dhule, India

Experience

- **Testbuddy Education Pvt Ltd** *Jun 2025 – Jul 2025*
  React.js Developer Intern
  - Engineered **college prediction tools, interactive tests, blogs, and responsive web pages** using **React.js v18** and **Next.js v14**, designed to handle **50K+ users** with optimized cross-device compatibility.
  - Enhanced UI/UX and frontend rendering while integrating **REST APIs** and **Docker**-containerized apps, boosting engagement and load speed by **20–25%** with a smooth, responsive experience.

Skills

- **Programming & CS Fundamentals:** JavaScript , TypeScript, C++, Python, System Design Principle
- **Frameworks:** Node.js, Express.js, React.js, Next.js , Vue.js , Agile Methodologies
- **Web Technologies:** HTML5, CSS3, RESTful APIs, JWT Auth, TailwindCSS, Bootstrap, Vite
- **Database & DevOps:** PostgreSQL, MongoDB, SQL, Git/GitHub, Docker, Flask, Postman, Linux

Projects

- **Tesla Clone with AI Assistant** *Apr 2025 – May 2025*
  Tools: Vite, TypeScript, Node.js, PostgreSQL, TailwindCSS, OpenAI, EmailJS [] [Live Link]
  - Developed a library of **15+ reusable, animated UI components** with **TailwindCSS v3** and **Framer Motion v7, intended to accelerate development speed and reduce design-to-deploy time**.
  - Built a scalable **Node.js v20** + **PostgreSQL v16** backend **Implemented to handle up to 5K API requests/day**, with advanced role-based access control and secure JWT authentication for multi-user management.
  - Created **secure, high-performance REST APIs**, integrated **Razorpay** payment gateway, and deployed an **OpenAI-powered chatbot simulated to automate common queries and reduce manual support load**.

- **StudyNotion: Full-Stack E-Learning Platform** *Jun 2024 – Jul 2024*
  Tools: ReactJS v18, TailwindCSS v3, ExpressJS v4, NodeJS v20, MongoDB v6, Cloudinary, Razorpay [] [Live Link]
  - Designed and implemented **secure role-based dashboards** for 3 roles (students, instructors, and admins) , featuring advanced authentication, granular access control, and high system reliability.
  - Crafted **20+ high-performance backend APIs** for multimedia-rich courses, integrating **Cloudinary** for video and image handling, enabling admins to manage unlimited categories and content at scale.
  - Optimized **MongoDB queries** and frontend rendering, enabling instructors to create courses, set prices, and track **50+ courses** with revenue and growth analytics via their dashboard, improving load times and UX.

- **ShieldVision – RTSP Livestream with Custom Overlays** *Sep 2025 – Oct 2025*
  Tools: React.js, Node.js (Express), MongoDB, OpenCV, YOLOv8, Flask, Docker [] [Live Link]
  - Built a full-stack surveillance dashboard for **RTSP streams** with AI-based **object detection** using **YOLOv8** and **OpenCV**, capable of detecting **5+ object types** across **10+ camera streams** at **30 FPS**.
  - Engineered a scalable **Dockerized Flask service** to relay RTSP feeds into MJPEG, capable of handling **10 concurrent streams** with **100ms latency** and **1000 frames/min per stream**.
  - Created a responsive **React.js dashboard** with **10+ REST APIs**, **JWT authentication**, and **MongoDB** persistence, managing **10 cameras** and **20 overlays/events** in real-time.

Position of Responsibility

- Wadla Hackathon 2025 - *Managed overall event logistics and participant registrations, ensuring smooth execution of all activities.*

Certifications

- Full Stack Development – CodeHelp