AMAN PATRE

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SUMMARY

Computer Science student at VIT Bhopal with hands-on experience in the **MERN stack**. Passionate about building user-focused applications and exploring real-world problem-solving through technology. I've contributed to **open-source** projects and participated in **hackathons**, and I'm currently diving into **machine learning** to broaden my skill set and explore its practical applications.

EDUCATION

VIT Bhopal University   *Sehore, Madhya Pradesh* | **2023 – Present**

B.Tech, Computer Science and Engineering

- **Current CGPA: 8.75**

St. Aloysius Sr. Sec. School   *Jabalpur, Madhya Pradesh* **| 2011-2023**

- **12th Percentage: 84%**

SKILLS

Web Development: MERN Stack (MongoDB, ExpressJS, ReactJS, NodeJS), HTML, CSS, JavaScript, Tailwind CSS, Bootstrap

Programming Languages: C++, Java, Python, JavaScript

Tools & Technologies: Git, GitHub, Postman, JWT, MongoDB Atlas, Docker(basic), Render, Multer

PROJECTS

FoodIn – Food Delivery Website (MERN STACK) ([LINK](#))

- Developed a full-stack food delivery platform allowing users to browse menus, place orders, and simulate payments via Stripe.
- Built an **admin panel** for managing menu items, tracking orders, and updating order statuses.
- Implemented **JWT-based authentication** and **password encryption** with bcrypt for **secure** user login.
- Handled menu image uploads using **Multer** with seamless integration into the menu management system.
- Tech Stack: **ReactJS, NodeJS**, **ExpressJS**, **MongoDB**, Tailwind CSS, JavaScript, Multer, Stripe, brcypt, JWT, Vite.

Roomate – Real-Time Collaboration Platform (MERN STACK) ([LINK](#))

- Developed a full-stack **real-time chat app** with **project-based rooms, AI assistant**, and **dynamic code generation** via **WebContainers**.
- Integrated **Redis** for session management and built RESTful APIs with secured **JWT based authentication**.
- Enabled **dynamic code generation** and **execution**: Users can prompt the AI (e.g., " @ai create an Express server for me"), and the system generates, deploys, and runs code in real-time using WebContainers **within the application**.
- Tech Stack: **ReactJS**, **NodeJS**, **ExpressJS**, **MongoDB**, **Socket.io**, Redis, Vite, JavaScript, JWT, **AI Integration**, WebContainers.

EXPERIENCE

Intern – Digistall (May 2025 –June 2025)

- Resolved critical frontend **website issues**, improving user experience.

Core Member – AI Club Web Team, VIT Bhopal (November 2024 – Present)

- Collaborated with team members to develop responsive club webpages and implement **event features**.

GSSoC (GirlScript Summer of Code) Contributor (2024)

- Fixed issues, added new features, and improved documentation in **open-source** projects.

ACHIEVEMENTS

3rd Place Winner in College Hackathon - Organized by a college club, developed a **UI/UX-based web page** using HTML, CSS and JavaScript showcasing the history, impacts, and milestones of the Mozilla Firefox browser.

Top 20 Finalist out of 700+ Teams – CodeForge'25 Hackathon - Our project "**Dynamic Route Rationalization using Machine Learning and SUMO**" was selected for the Grand Finale held at the **Microsoft Office, Gurugram, Haryana**. We developed a system that predicts congestion using **LSTM** models and dynamically **re-routes vehicles with A* algorithm**, simulated in **SUMO**. This project showcased real-time decision-making in urban mobility and was praised for its innovation and real-world applicability.