

# Aman Patre

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## EDUCATION

### VIT Bhopal University

B.Tech in Computer Science and Engineering; CGPA: 8.75/10

Sehore, MP

Sep 2023 – Present

### St. Aloysius Sr. Sec. School

Class XII (Science); Percentage: 84%

Jabalpur, MP

Apr 2022 – May 2023

## EXPERIENCE

### Digistall

Intern

Remote

May 2025 – Jun 2025

- Built **10+ responsive components** using **React** and **Tailwind CSS**, resolving critical front-end issues
- Executed modern **UI/UX** designs with Tailwind utility classes and **React hooks** for enhanced functionality
- Streamlined development workflow using **Git/GitHub** to optimize component architecture

## PROJECTS

### FoodIn | ReactJS, NodeJS, ExpressJS, MongoDB, Stripe, JWT

May 2025 – Jun 2025

- Developed **full-stack** food delivery platform with order placement and **Stripe payments**, tested by **15+ users**
- Built **admin panel** for menu management, order tracking, and status updates
- Integrated **JWT authentication** and **bcrypt** password encryption for secure user login
- Deployed application on **Render** with optimized performance and **responsive design** across devices

### Roommate | ReactJS, NodeJS, MongoDB, Socket.io, WebContainers

Jul 2025 – Aug 2025

- Developed **real-time chat app** with project rooms and **Gemini-2.5-Pro integration**, tested by **10+ users**
- Integrated **Redis** for JWT token expiration and engineered **8+ RESTful APIs** with JWT authentication
- Pioneered **AI-powered code generation** and execution using **WebContainers** within the application
- Architected **scalable infrastructure** with **Socket.io** for real-time messaging and collaboration features

## ACHIEVEMENTS

### 3rd Place Winner – College Hackathon

Dec 2024 – Dec 2024

- Created **UI/UX webpage** showcasing Mozilla Firefox browser history using **HTML**, **CSS**, and **JavaScript**
- Competed against **50+ teams** and delivered an innovative web solution within a **24-hour** time constraint

### Top 20 Finalist – CodeForge'25 Hackathon

Apr 2025 – Apr 2025

- Advanced to the **Finale** at **Microsoft Office, Gurugram** from **700+ teams** with a traffic optimization project
- Engineered **ML-powered traffic system** using **LSTM models** and **A\* algorithm** in **SUMO**, reducing average commute times by **15 minutes** during peak hours

## EXTRACURRICULAR ACTIVITIES

### Web Team Core Member

AI Club Web Team

VIT Bhopal University

Nov 2024 – Present

- Spearheaded team collaboration to create **3 responsive club webpages** and implement event features
- Created and launched **user-friendly interfaces** for club events, workshops, and member registration systems

### Contributor

GSSoC (GirlScript Summer of Code)

Remote

Oct 2024 – Nov 2024

- Resolved issues, enhanced features, and improved documentation in **7+ open-source projects**
- Contributed to multiple repositories by debugging, implementing feature requests, and **code optimization**

## CERTIFICATIONS

Postman API Fundamentals Student Expert

Introduction to Machine Learning – NPTEL

MATLAB – MathWorks