

PRANAV VERMA

Bhilai, Chhattisgarh | +91-7389355960 | vermapranav001@gmail.com

[LinkedIn](#) | [Github](#) | [Portfolio](#)

SUMMARY

Full-Stack MERN Developer skilled in building end-to-end web applications from dynamic frontends to robust backend systems. Proficient in MongoDB, Express.js, React, and Node.js, with expertise in RESTful API integration, authentication, and deployment on cloud platforms. Passionate about developing scalable, user-centric solutions that solve real-world problems efficiently.

EDUCATION

Bachelor of Technology in Computer Science

Shri Shankaracharya Technical Campus, Bhilai | 2022 - 2026 (Expected)

Class XII

Shri Shankara Vidhyalaya | 81.7% | 2021 - 2022

Class X

Shri Shankara Vidhyalaya | 90.6% | 2019 - 2020

TECHNICAL SKILLS

- **Programming Languages:** C++, JavaScript
 - **Frontend:** HTML5, CSS3, React.js, Redux toolkit, Tailwind CSS, GSAP
 - **Backend & APIs:** Node.js, Express.js, REST
 - **Databases:** MongoDB, Firebase
 - **Version Control:** Git, GitHub
 - **Auth & Security:** JWT, bcrypt, Firebase Auth
 - **Cloud & Deployment:** Vercel, Netlify, Render
 - **AI & Productivity Tools:** Claude Sonnet/Opus, Gemini 3 Flash, github copilot, Antigravity IDE
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PROJECTS / RELEVANT EXPERIENCE

AI-Powered E-Commerce Website → [Live Demo](#)

- Built a full-stack MERN e-commerce platform with Firebase authentication, Razorpay payment integration, and an admin dashboard for product and order management.
- Implemented Cloudinary for secure media storage and optimized product image handling.
- Integrated AI-powered voice navigation to improve accessibility and user experience.
- Impact: Developed a secure, scalable shopping platform with real-world payment and admin workflows.

• Gitkeep Manager – VS Code Extension → [Live Demo](#)

- Developed a productivity-focused VS Code extension using JavaScript, Node.js, and the VS Code API to automate empty folder management in Git repositories.
- Automatically adds .gitkeep files to empty directories and removes them when files are added.
- Supports deeply nested folders, configurable ignored paths, and large project structures.
- Impact: Improved Git repository hygiene and developer productivity; published on the VS Code Marketplace.

[Deep Packet Inspection \(DPI\) → Live Demo](#)

- Built a high-performance Deep Packet Inspection (DPI) engine in C++ with a scalable multi-threaded architecture for efficient connection tracking.
 - Designed and integrated custom protocol parsers to extract network headers and dynamically identify application-layer traffic.
 - Implemented real-time traffic filtering features including Domain SNI blocking and packet capture (PCAP) file generation.
 - Developed a lock-free packet processing system to ensure low latency, high throughput, and robust performance.
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CERTIFICATIONS

- **Software Engineering Job Simulation-** JPMorgan Chase & Co. (2025)
 - **The Complete Full-Stack Web Development Bootcamp - By Dr. Angela Yu.** (2024)
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