

PIYUSH THAKUR

Full Stack Developer | AI Integrations | React.js | Next.js | Node.js | Python/FastAPI

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PROFESSIONAL SUMMARY

Full Stack Developer with production experience building API-driven web applications, CRM systems, SEO-focused platforms, real-time communication tools, and AI-integrated product features. Strong hands-on skills in React.js, Next.js, TypeScript, Node.js, Express.js, REST/JSON APIs, MongoDB, and Python/FastAPI. Built public projects including an AI desktop sticky-note app with local LLM provider support, a gym CRM with biometric attendance/payment workflows, business websites, automation infrastructure, and WebRTC/Socket.io streaming systems. Comfortable owning features end-to-end across frontend, backend, authentication, API integration, deployment, and responsive UI delivery.

CORE TECHNICAL SKILLS

Frontend: React.js, Next.js, TypeScript, JavaScript, HTML5, CSS3, Tailwind CSS, responsive UI, SSR, dashboards

Backend: Node.js, Express.js, Python, FastAPI, RESTful APIs, JSON API integration, authentication, role-based access

AI & Automation: OpenAI/GPT integration, Google Gemini integration, DeepSeek R1 integration, prompt engineering, AI assistants, n8n automation, RAG and LangChain fundamentals

Databases: MongoDB, Mongoose, Firebase, MySQL, PostgreSQL fundamentals

DevOps & Tools: Docker, Git/GitHub, Linux, API testing, deployment, CI/CD fundamentals, Stripe integration

Real-Time Systems: WebRTC, Socket.io, WebSockets, FFmpeg, Canvas-based video streaming

PROFESSIONAL EXPERIENCE

My ProBook | Software Engineer Oct 2025 - Present

- Developed an API-driven CMS and integrated dynamic website sections with REST APIs for scalable content management.
- Built SEO-friendly Next.js pages using server-side rendering and improved responsive UI/UX across production screens.
- Implemented routing, session handling, authentication-state updates, and web-view URL flows across Pro account pages.
- Collaborated on project gallery and website modules, converting business requirements into reusable frontend components.
- Created an AI assistant/discovery flow so users can find the right Pro or service through a single natural-language message instead of manually browsing multiple pages.

Binary Data Pvt. Ltd. | MERN Full Stack Developer Feb 2025 - Oct 2025

- Built Next.js and TypeScript features for customer-facing applications, including payment integration using Stripe.
- Created AI-integrated application features using LLM APIs/open models to improve user support and customer interaction.
- Developed Python/FastAPI services and connected them with frontend workflows through REST APIs.
- Worked across frontend, backend, API integration, and deployment support in a fast-moving full-stack environment.

SAS Web Solutions Pvt. Ltd. | MERN Stack Developer Feb 2024 - Nov 2024

- Built full-stack MERN applications using MongoDB, Express.js, React.js, and Node.js with API-first architecture.
- Implemented secure authentication using JWT and bcrypt for password hashing and session management.
- Enabled real-time collaboration and updates using WebSockets/Socket.io.
- Delivered responsive frontend screens and integrated backend APIs with reusable React components.

VQCodes Software Solutions LLP | Flutter Developer Oct 2023 - Jan 2024

- Developed healthcare-related applications including Gini and implemented video-calling integrations.
- Built AI Journal features using Firebase and external API integrations.
- Enhanced app functionality using QR Scanner and worked with the team to deliver mobile features on schedule.

SELECTED PROJECTS

MyStickyNote - AI Desktop Sticky Notes | mystickynote.com/ - privacy-first productivity app for developers

- Built an AI-enabled sticky-note product supporting local API-key usage with DeepSeek R1, Google Gemini, and OpenAI/ChatGPT providers.
- Implemented productivity features such as always-on-top notes, auto-dim inactive state, timer/alarm/stopwatch tools, draft recovery, and collapsible UI behavior.
- Positioned the app around local storage, privacy-by-design, and zero telemetry so notes and API keys remain on the user machine.
- Tech: AI provider APIs, desktop/web UI, local storage, privacy-first architecture

ApnaGymCRM | apnagymcrm.cloud/ - gym CRM and automation platform

- Built a CRM-style product for gym operations covering member registration, attendance, payments, and admin workflows.
- Implemented user-facing flows focused on biometric attendance, smart payment tracking, and AI-powered reminders.
- Tech: React/Next.js, Node.js/Express, REST APIs, database integration, admin dashboard

Blue Star Management Service Website | www.bluestarmanagement.in/ - business website for elevator and escalator services

- Developed a responsive business website for a service company operating across North India.
- Built service-oriented pages, contact/lead capture flow, and SEO-ready structure for better online discovery.
- Tech: Next.js/React, responsive UI, SEO, contact workflow

Self-Hosted n8n Automation & Telegram Quiz Workflows | n8n.fastdeploy.in/ - personal automation and AI workflow platform

- Deployed and maintained a self-hosted n8n environment for daily productivity workflows, reminders, quizzes, and API-based automations.
- Built Telegram-oriented workflow ideas for daily quizzes, scheduled learning prompts, and routine notifications using triggers, webhooks, and bot/API integrations.
- Created a reusable automation lab for AI workflows, webhook-based integrations, and business process automation across personal and product use cases.
- Tech: n8n, Telegram Bot API, workflow automation, webhooks, REST APIs, scheduled triggers, self-hosted deployment

Vibb - Live Video Podcast and Streaming Platform - real-time video and YouTube streaming platform

- Built a MERN-based app for live video calls and YouTube streaming tailored for podcast hosting.
- Integrated WebRTC for peer-to-peer video calls and Socket.io for signaling through offer/answer exchange.
- Used FFmpeg inside Docker to encode Canvas-generated video into streamable binary output for YouTube.
- Tech: MongoDB, Express.js, React.js, Node.js, WebRTC, Socket.io, FFmpeg, Docker, bcrypt

EDUCATION

Master of Science in Computer Science, Woolf / Scaler (Remote) *Currently Pursuing | Active*

Bachelor of Technology (B.Tech), University Institute of Technology (UIT), Shimla *Aug 2019 - Jun 2023*

CGPI: 8.36

TARGET ROLE ALIGNMENT

- Strong match: React/Next.js frontend, REST APIs, JSON integrations, MongoDB, authentication, Docker, real-time systems, AI/LLM integrations, and production deployments.
- Current upskilling for senior AI roles: Django REST Framework, Azure App Service/Azure DevOps, PostgreSQL/MySQL depth, LangChain/LlamaIndex, RAG pipelines, AI agents, testing, and CI/CD.