

TANISH VISHWAKARMA

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Education

Gyanganga College of Excellence

Bachelor of Computer Application (BCA)

Sep. 2023 – May 2026

Jabalpur, Madhya Pradesh

Relevant Coursework

- Data Structures
- Algorithms Analysis
- Artificial Intelligence
- Systems Programming
- Web Development
- Database Management
- Applied AI
- Computer Architecture

Experience

Raya, Inc

Front End Developer Intern

May 2025 – Present

Jabalpur, Madhya Pradesh

- Delivered 10+ fully responsive UI screens from Figma, reducing front-end delivery time and improving design accuracy.
- Boosted development efficiency by structuring a Next.js monorepo architecture, enabling faster module reuse and better team collaboration.
- Enhanced user engagement by implementing dynamic product listings, filters, and interactions, resulting in a 25% increase in average session duration.
- Accelerated integration cycles by collaborating with backend and design teams, reducing API integration turnaround time while ensuring consistent branding.

Projects

Real-Time Collaborative Drawing App | Next.js, TypeScript, OAuth, WebSocket, Canvas API

January 2025

- Built a real-time collaborative drawing app supporting 50+ concurrent users on a shared canvas simultaneously.
- Implemented bidirectional WebSocket communication, reducing sync delay to 100ms latency across clients.
- Developed custom drawing tools (pencil, color palette, eraser, clear canvas) using HTML5 Canvas API, achieving smooth rendering performance.
- Added room-based collaboration, enabling private sessions for teams and increasing usability for group projects.
- Optimized event throttling and rendering, cutting CPU usage by 40% during heavy multi-user activity.

AI-Powered VFX Generator Workflow | n8n, OpenAI API, Google Drive, Workflow Automation

November 2024

- Developed an end-to-end automated VFX generation workflow using n8n, integrating OpenAI API prompts with user-provided assets to produce high-quality visual effects by analyzing the reference image supplied by the user.
- Enabled dynamic asset management by connecting Google Drive for input/output storage, automating retrieval, organization, and versioning of media files.
- Implemented intelligent workflow orchestration to chain multiple AI prompts and transformations, optimizing VFX generation speed, consistency, and alignment with the reference image.
- Reduced manual design effort by automating repetitive tasks in VFX creation, allowing faster prototyping, iteration, and reference-based creative output.

AI Interview Preparation App | React.js, TypeScript, Docker, PostgreSQL (Prisma), ElevenLabs API

June 2025

- AI-driven mock interview platform that analyzes user answers in real-time and provides instant, personalized feedback.
- Integrated ElevenLabs API for text-to-speech, enabling 90% accuracy in contextual response evaluation.
- Built scalable Dockerized backend with Node.js and PostgreSQL, improving deployment speed.
- Added support for dynamic job-role-based questions, making the platform flexible for different domains and seniority levels.

Technical Skills

Languages & Frameworks: JavaScript/TypeScript | Python | C++ | Rust | Next.js | React.js | Node.js | Tailwind CSS

Developer Tools: VS Code | Google Cloud Platform | Apify API | n8n | Claude CLI

Technical Skills: Full-Stack Development | API Design (RESTful) | Payment Integration

Security & Concepts: OAuth | Hashing | Data Structures and Algorithms

Databases & DevOps: PostgreSQL | MongoDB | Redis | Docker | Git/GitLab CI/CD | Linux

Achievements

- Earned HackerRank badges: 5 star in C++, JavaScript
- Completed 100xDevs Cohort-3 Full-Stack Web Development
- J.P. Morgan Quantitative Research Job Simulation (Jul 2025)
- AWS Solutions Architecture Job Simulation (Jul 2025)