

AYUSH VERMA

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Education

Noida Institute of Engineering and Technology

Bachelor of Technology in Computer Science | CGPA: 8.42

2023 – 2027

Greater Noida, Uttar Pradesh

City Montessori School

Class XII: 95% | Class X: 94%

2021 – 2023

Lucknow, Uttar Pradesh

Experience

Navonex Tech

Frontend Developer Intern

August 2025 – October 2025

Remote · Pune, India

- Re-architected manual ticket triage into an **MVC-based system (PHP CodeIgniter)** with **5+ automated routing queues** dispatching tickets by category and priority – eliminating all manual assignment overhead.
- Pinpointed unindexed queries scanning **10,000+ log records** per page load; applied **MySQL composite indexing** on hot filter columns, cutting read latency from several seconds to **under 50ms**.
- Refactored **10+ legacy UI components** across **4 admin dashboards** into unified, reusable React modules – standardizing state management and collapsing duplicated frontend code to a single source of truth.

Genbounty

Web Developer Intern

May 2025 – July 2025

Remote · London, UK

- Proposed and built a **shared component library of 15+ React/Next.js components** adopted across **3 AI product workflows**, eliminating redundant UI builds and enforcing a consistent design system.
- Applied **Next.js SSR** and automated image optimization (format conversion, lazy loading), pushing **LCP below 1.2s** and **Google Lighthouse scores to 95+** across all tracked pages.
- Wired **10+ dashboard endpoints** to RESTful APIs with structured error handling and request validation – stabilizing data-fetch times to **under 2s** and eliminating recurring client-side timeout failures.

Projects

Axiom — Telegram-Controlled Local AI Agent | [GitHub](#) | *Node.js, Telegram Bot API, Docker, Ollama, MCP*

- Built a fully local AI agent on **Ollama LLMs**, controlled via Telegram, that autonomously executes **15+ OS-level tasks** (app launching, document editing, web search) – no cloud dependency, no data leaving the device.
- Designed a modular tool layer via **Model Context Protocol (MCP)**, exposing **5+ sandboxed capabilities** (file I/O, shell, browser) as callable functions – new tools plug in without touching core agent logic.
- Containerized the full stack into a **portable Docker image**, enabling **one-command deployment** across Windows, macOS, and Linux with zero manual environment configuration.

SketchSync — Multiplayer Real-Time Whiteboard | [GitHub](#) | *Socket.io, React.js, Node.js, Firebase*

- Engineered real-time collaborative drawing using **Socket.io room-based event broadcasting** to sync canvas state across all clients simultaneously, achieving **sub-100ms latency** with no perceptible lag.
- Built a **stack-based undo/redo engine** tracking **50 interaction steps** per session, preserving state integrity across concurrent user actions without a dedicated state-sync library.
- Integrated **Firebase Authentication** for secure session management; validated stability under **50+ simultaneous socket connections** via structured load testing before shipping.

Noteables — Full-Stack Community Note Platform | [GitHub](#) | *MERN Stack, Cloudinary, Zod, JWT*

- Replaced self-hosted image storage with **Cloudinary CDN** for automatic format optimization and adaptive delivery – cutting image payload sizes by **40%** with zero per-upload manual intervention.
- Enforced **Zod schema validation across 12+ API endpoints**, blocking malformed payloads before they reach business logic and eliminating silent database write corruption entirely.
- Designed a **JWT-authenticated backend** with role-aware access control; stress-tested against **100+ concurrent sessions** confirming zero token leakage, race conditions, or response degradation.

Technical Skills

Languages: JavaScript (ES6+), TypeScript, Java, Python

Frontend: React.js, Next.js, Tailwind CSS, HTML5/CSS3

Backend & APIs: Node.js, Express.js, PHP (CodeIgniter), Socket.io, RESTful APIs, WebSockets

Databases & DevOps: MongoDB, MySQL, PostgreSQL, Docker, Git, Linux

Concepts & AI Tooling: DSA, OOP, System Design, JWT Auth, Model Context Protocol (MCP), Ollama (Local LLMs)