

RAJAT SHARMA

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EDUCATION

Kanpur Institute of Technology (AKTU)

2023 - 2027

Bachelor of Technology in Computer Science & Engineering | CGPA: 7.2 / 10.0

Kanpur, India

WORK EXPERIENCE

Pradite

June 2026 - Present

Co-Founder & Frontend Engineer

Kanpur / New Delhi, India

- Co-founded an in-browser code editor; engineered the core editor interface integrating Monaco Editor with token-stream parsing in React 19 and TypeScript.
- Built client-side cancellation tokens so user interrupts or keystrokes immediately sever the WebSocket, avoiding redundant model API consumption.
- Diagnosed and resolved memory leaks in UI state subscribers, eliminating frame drops during rapid multi-file tab switching.
- Authored automated unit and integration test suites using Vitest to enforce modular component contracts and prevent UI regressions.

Sparqor Technologies

May 2026 - July 2026

Software Engineer Intern

Remote

- Shipped responsive client interfaces with automated session handling and Gemini AI integrations across production web platforms.
- Diagnosed and patched critical client runtime crashes, resolving asynchronous data-fetch exceptions to improve platform stability.
- Participated in system design reviews and peer code reviews, ensuring strict TypeScript typing standards and clean component architecture.

PROJECTS

Ghost AI: Collaborative Visual Cloud Architecture Canvas

2025

Next.js 16, React 19, TypeScript, Liveblocks WebSockets, React Flow

github.com/RajatSharma404/ghost-ai

- Engineered an interactive 2D node canvas converting natural-language requirements into visual Directed Acyclic Graph (DAG) system topologies using React Flow and Next.js 16.
- Implemented real-time multi-user state synchronization across WebSockets using Liveblocks, eliminating state divergence during concurrent collaborative node editing.
- Integrated streaming Google Gemini AI APIs with adaptive retry backoff mechanisms to stream structured graph topologies without blocking the main UI thread.

FitFlow: Progression & Embedded Code Editor Platform

2026

Next.js 16, React 19, TypeScript, Monaco Editor, Prisma, PostgreSQL, Docker

github.com/RajatSharma404/Fitness-Roadmap

- Integrated Monaco Editor with custom Vim keybinding modes and syntax highlighting directly into a modular React 19 and Next.js 16 client workspace.
- Designed relational database models in Prisma ORM connected to PostgreSQL, managing structured progression roadmaps and user progression logs.
- Configured reproducible multi-container developer environments with Docker Compose and established automated test suites using Vitest.

Interactive 3D Portfolio: WebGL & Systems Showcase

2026

Next.js 16, React 19, TypeScript, Three.js, GSAP, Tailwind CSS

github.com/RajatSharma404/3D-portfolio

- Architected a responsive interactive developer portfolio incorporating Three.js WebGL rendering, GSAP micro-animations, and Next.js 16 App Router architecture.
- Optimized client rendering cycles and asset loading to eliminate frame drops and maintain smooth 60fps animations across mobile and desktop viewports.
- Validated component rendering and DOM state persistence using Vitest and React Testing Library.

TECHNICAL SKILLS

Languages: TypeScript, JavaScript (ES6+), Python, HTML5, CSS3, SQL

Frontend & UI: React 19, Next.js 16, Tailwind CSS, Monaco Editor, React Flow, Zustand

State & Telemetry: WebSockets (Liveblocks), Recharts, Server-Sent Events, Fetch API

Developer Tools: Vitest, Docker, Git, GitHub Actions, Postman, Linux

KEY ACHIEVEMENTS

- Algorithmic Problem Solving:** Solved 160+ data structures and algorithms challenges across LeetCode and Codeforces focusing on Dynamic Programming, Graphs, Trees, and Sliding Window techniques.
- Open-Source Repository Adoption:** Authored and open-sourced DSA-Tracker Pro on GitHub (17 organic stars), providing an automated interview preparation engine with Docker Compose and CI workflows.
- National Hackathon Finalist:** Built and deployed a full-stack functional web prototype under tight time constraints at the Chandigarh University National Hackathon.