

Neel Khatri

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EDUCATION

DAU

Bachelor of Technology in Information and Communication Technology

Gandhinagar, Gujarat

July 2024 – Present

- **Relevant Coursework:** Data Structures & Algorithms, Object-Oriented Programming, Computer Systems Programming, Linear Algebra, Web Development.

SCHOLASTIC ACHIEVEMENTS

Secured **99.4 percentile** in JEE Mains 2024 (AIR 9708) among approx. 1.4 million candidates.

EXPERIENCE

Core Member

Google Developer Group on Campus, DAU

November 2024 – Present

Gandhinagar, Gujarat

- Co-organized Dev-o-lution, managing technical logistics and operations for **1000+ participants**.
- Conducted peer-to-peer workshops on **Git, GitHub, and Web Development** fundamentals for junior students.
- Collaborated with a team of 24 members to facilitate hackathons and coding competitions on campus.

PROJECTS

Physics-on-go | *Next.js, React, TypeScript, Node.js, MongoDB*

- Developed a full-stack e-learning platform to deliver educational content with real-time performance tracking.
- Engineered advanced features including test modules with performance analytics and daily practice problems.
- Implemented secure RESTful APIs with Role-Based Access Control (RBAC) for distinct user types.
- Built a modular frontend with a custom component library and managed complex application state.

Excalidraw - Clone | *TypeScript, React, Node.js, WebSockets, Turborepo*

- Developed a real-time collaborative whiteboard application using a monorepo structure (Turborepo, pnpm).
- Implemented real-time drawing synchronization via WebSockets (ws) and an Express.js backend.
- Built a dynamic Next.js/React frontend with TypeScript for intuitive user interaction.
- Managed data persistence and user authentication using Prisma ORM and Node.js backend services.

HydroSphere | *[Tech Stack used e.g., Python, OpenCV, Flutter]*

- Built a working HydroSphere prototype in a 48-hour hackathon, delivering end-to-end city-level hydrogen simulations and exportable reports.
- Added interactive, layerable geospatial visualizations (Leaflet + React-Leaflet) for fast comparison of top cities and infrastructure scenarios.
- Implemented Next.js serverless APIs to run simulations, persist scenarios in Supabase, and produce reproducible exported results.
- Integrated an AI-powered suggestions/chat feature and streamlined data import/export to accelerate demo-ready iterations.

TECHNICAL SKILLS

Languages: C/C++, JavaScript, TypeScript, Python, HTML/CSS, SQL

Frameworks: Next.js, React, Node.js, TailwindCSS, FastAPI

Developer Tools: Git, GitHub, Docker, VS Code, Postman

Libraries: Express.js, Mongoose, Zod, ShadcnUI, WebSockets (ws)