

# 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 | *Next.js, TypeScript, React, Leaflet, Supabase*

- 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, Supabase, TailwindCSS, FastAPI

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

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