Nikunj Goyal

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Technologies

Languages: TypeScript, JavaScript, C, SQL

Front-End: HTML, CSS, React.js, Next.js, Tailwind CSS, ShadCN UI, Bootstrap

Back-End: Node.js, Express.js, PHP

Database: MongoDB, SQL, PostgreSQL

Technologies: Git, GitHub, VS Code, Chrome DevTools, Postman, pgAdmin4, Antigravity

Work Experience

Software Engineering Intern, Airtel Digital – Gurugram, IND   May 2025 – July 2025

- Deepened expertise in **React 18/19 fundamentals**, experimenting with new hooks (`useOptimistic`, `useDeferredValue`, `useFormStatus`) and the React Compiler to optimize state handling and UI performance.
- Applied these learnings to develop core features in **Paylert**, focusing on scalable UI patterns, lifecycle management, and raw SQL-backed APIs.
- Contributed to Airtel's internal **Atlas Learning App** by designing and delivering **3 reusable UI components** and 2 page layouts, improving visual consistency and speeding up feature rollout.

Projects

Paylert (Ongoing)   GitHub

- Built modules for transactions, reminders, fixed deposits, analytics, and automated invoicing with secure **JWT + Google OAuth2**.
- Designed a raw-SQL backend enabling **double-entry accounting** and scalable multi-user architecture.
- Added interactive dashboards & charts for insights, reducing manual financial calculations by **>70%**.

Notion-Powered Blog (Next.js + TypeScript)   GitHub | Live

- Built a Notion-powered blog platform using **Next.js, TypeScript, and Notion API**, enabling non-technical content updates and reducing maintenance time by **40%**.
- Implemented a custom MDX renderer with rich text components (callouts, lists, images).
- Optimized server responses using **Next.js caching & route-based ISR**, reducing LCP/FCP from 10s to **under 1.5s**.
- Added page-level caching for revisited posts, reducing repeated API calls by **90%**.

Inverted-Transform Wavelet Scrambling   GitHub | Live

- Developed a self-contained **Next.js** web application that performs secure image hiding and retrieval using a custom **DWT + DCT + inverse–transpose pixel scrambling** steganography algorithm.
- Implemented all processing through **Next.js API routes and in-app logic** with no external backend or database, enabling fast client-driven embedding and extraction workflows.
- Designed an intuitive interface for **uploading, embedding, extracting, and downloading** images, making the complex steganographic pipeline accessible to end-users.

Education

Manipal University Jaipur, B. Tech. in Computer Science Engineering (IoT - IS)   Oct 2022 – May 2026
- CGPA: 9.36/10.0

R.A.N. Public School, Senior Secondary (Rudrapur, UK)   March 2021 – April 2022
- Percentage: 91%

R.A.N. Public School, Junior Secondary (Rudrapur, UK)   March 2019 – March 2020
- Percentage: 97.4%

Certificates

- **Edureka Full Stack Internship Drive Front-End Certificate (In Progress)**
- **Academic Awards** - 5 Time Student Excellence Awardee, Design Analysis and Algorithms by NPTEL