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

- Building a full-stack budgeting and accounting web app using **React 19, Node.js, Express, and PostgreSQL**, with modules for transactions, reminders, fixed deposits, and automated invoicing.
- Designed a modular backend with raw SQL, supporting **double-entry accounting**, financial reporting, and scalable multi-user data handling; initially prototyped with **MongoDB** before migrating to PostgreSQL for relational data needs.
- Integrated interactive dashboards and charts for **real-time insights**, and implemented secure auth with **JWT + Google OAuth2**. Currently experimenting with a Gemini-powered finance assistant for natural language queries.

Inverted-Transform Wavelet Scrambling   GitHub

- Built a **Full-Stack MERN** application to demonstrate a novel steganography-based scrambling technique, enabling secure data concealment and retrieval through a React interface and Express/MongoDB backend.
- Strengthened authentication security by implementing **JWT access–refresh token system** with localStorage + HTTP-only cookies, reducing session hijacking risks and ensuring persistent user login flows.
- Improved accessibility and usability by integrating **Google OAuth2** sign-in and **history save/download/retrieve** features, resulting in faster onboarding and efficient user data management.

Certificates

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

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%