

# Nikhil Singh

Full Stack Developer

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## SUMMARY

Full Stack Developer with a focus on building scalable, secure, and user-centric web applications. Experienced in delivering high-availability systems, optimizing backend performance, and creating responsive interfaces that enhance user experience. Passionate about clean architecture and solving real-world problems through technology.

## EXPERIENCE

### Software Engineer

Cognizant Technology Solution

Dec '23 — Present

Noida, India

- **Implemented robust authentication and authorization systems using JWT and role-based access control**, securing sensitive routes and data transactions, which reduced unauthorized access incidents by **30%** and improved overall application security compliance.
- **Developed and maintained scalable RESTful APIs with Node.js, Express.js, and MongoDB/SQL**, optimizing query structures and indexing strategies to handle **200+ monthly data manipulation requests**, reducing average query execution time by **40%** and enabling reliable real-time data operations across multiple services.
- **Contributed to full-stack feature delivery** by designing backend logic and APIs while building **responsive, component-based UIs** with React.js, ensuring smooth API integration and enhancing user experience — leading to a **25%** higher system efficiency.
- **Built a serverless architecture using Cloudflare Workers** with auto-scaling, fault tolerance, and edge-level resilience, achieving **99.99%** availability, zero-downtime deployments, and **~35%** reduced request latency through distributed execution.

### Software Engineer Intern

Cognizant Technology Solution

Sep '23 — Dec '23

Chennai, India

- Completed **full-stack training in Node.js and React**, gaining hands-on experience with **JavaScript, SQL, and API development**. Worked on internal projects to enhance business processes, built integration solutions, and improved skills in **debugging and code analysis** through a shadow project during training.

## EDUCATION

### B.Tech in Computer Science and Engineering, G L Bajaj Group of Institutions (GPA: 8.5/10)

Jun '19 — May '23

India

- **Relevant Coursework:** Data Structures & Algorithms, Operating Systems, DBMS, Object-Oriented Programming, Web Development

## PERSONAL PROJECT

### Medium-Blog [Link](#)

- **Built a scalable serverless backend from scratch using Node.js and Hono.js**, implementing **JWT-based authentication** with access/refresh tokens to ensure secure and persistent user interactions.
- **Designed and developed RESTful APIs with a modular Prisma ORM schema and PLSQL**, enabling efficient **CRUD operations** for user management and blog features (create, update, read, delete).
- **Utilized middleware for user authentication, structured error handling, and custom routers**, combined with **Zod schema validation** to enforce consistent request/response formats and enhance session security.
- **Developed a fully responsive and scalable frontend using React.js and Tailwind CSS**, implementing **reusable components** and optimized rendering patterns. Ensured smooth API integration with the Cloudflare serverless backend, enabling efficient **client-server communication**, faster data flow, and an enhanced user experience across devices.
- **Implemented global state management with Recoil**, optimizing state caching to minimize redundant API calls, and deployed the frontend on Cloudflare Pages linked with GitHub for automatic updates on every commit.

### Simplink – URL Shortener Web App [Link](#)

- Developed a full-stack URL shortener web application ("Simplink") using **React** for the frontend and **Node.js** with the **Hono** framework on the backend, enabling efficient routing and API handling.
- Integrated **serverless architecture** via Cloudflare Workers for scalable and cost-effective backend deployment, ensuring **low-latency** performance across global regions.
- Built **RESTful APIs** to generate and resolve clean, short URLs (e.g., /abc123), with persistent storage managed through a **PostgreSQL** database accessed via **Prisma ORM**.
- Collaborated end-to-end from system design to deployment, ensuring seamless integration between frontend, backend, and database layers.

## SKILLS

**Core Skills :-** JavaScript, Node.js, HTML, CSS, Python

**Frameworks & Libraries:-** Express.js, React.js, Prisma, Hono.js, Recoil

**Database Management:-** MongoDB, SQL, PostgreSQL

**API Development:-** RESTful APIs, JWT Authentication, Middleware

**Tools:-** Postman, GitHub, AWS, ChatGPT, Github Copilot