

UTPAL SONOWAL

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Technical Skills

Languages: JavaScript, TypeScript, C/C++

Frontend: React, Next.js, Tailwind CSS, Bootstrap, Shadcn UI, React Router, Redux Toolkit, Context API, Axios

Backend: Node.js, Express.js, REST APIs, API Versioning, JWT Authentication, Authentication & Authorization, Zod

Databases: PostgreSQL, MongoDB, Prisma ORM, Redis

DevOps: Docker, CI/CD, Vercel, Render

Tools: Git, GitHub, Postman, Figma, VS Code

Experience

Full Stack Developer Intern

Jan 2025 – Dec 2025

National Informatics Centre (NIC) — India

- **Developed a role-based food supply management system** that replaced manual Excel-based workflows for managing warehouses, wholesalers, retailers, and commodity distribution.
- **Centralized operational data with PostgreSQL and backend APIs**, eliminating repetitive Excel data entry and reducing manual record maintenance.
- **Automated transportation cost calculations** based on commodity, distance, and geographical area, replacing time-consuming manual calculations.
- **Automated Excel report generation and template formatting**, reducing report preparation time from **nearly a full day to a few hours**.

Projects

LnkShrt — Next Gen URL Shortener & Analytics | Frontend Backend

Node.js, Express, PostgreSQL, Redis, Typescript, NextJs

- **Developed a full-stack URL shortener** with custom aliases, QR code generation, and real-time analytics.
- **Engineered a production-grade authentication system with JWT** access/refresh token rotation, **Google OAuth**, **Redis-backed** OTP verification, **BullMQ-powered** email queuing, and rate limiting.
- **Optimized URL redirection**, achieving **average response times below 50 ms** through efficient database queries and backend optimization.
- Built a scalable analytics pipeline to capture and aggregate click metadata, including location, device, browser, operating system, and referrer.

Two Tier Transportation Management System | PHP, Laravel, PostgreSQL, JavaScript, Bootstrap

- **Developed a role-based System** to manage warehouses, wholesalers, retailers, and commodity distribution across districts.
- Designed a **normalized PostgreSQL** database and implemented CRUD operations with secure authentication and role-based access control.
- Automated transportation bill calculations based on commodity, distance, and geographical area, **reducing manual calculation errors**.
- **Optimized backend workflows** for warehouse-to-distributor mapping and monthly transportation **report generation**.

Education

Bachelor of Computer Applications (BCA)

2023 – 2026

North Lakhimpur University

CGPA: 7.8 / 10