

Kunwarbir Singh

Backend Engineer

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EXPERIENCE

Software Engineer

Shauryasoft Pvt.Ltd

June 2024 – December 2025

Chandigarh

- Architected and delivered a **global filtering, sorting, and reporting** framework used across the ERP ecosystem, improving **data retrieval speed by 30%** and enabling users to generate real-time, customizable reports with export capability. Designed and implemented a **global reporting system** enabling stakeholders to generate customized reports with real-time data visualization and export capabilities.
- Built a **fully functional Appraisal Management System**, allowing HR to create forms, assign employees, assign or auto-create managers (integrated with the existing user-creation flow), and track both employee and manager responses. Improved HR appraisal cycle **turnaround time by an estimated 60%**. Engineered the event scheduling functionality, streamlining the process for users to schedule and manage events within the ERP platform.
- Developed a **Visitor Management System** with visitor registration, appointment scheduling, approval flow, and security-desk scanning, improving check-in efficiency and cutting manual entry effort, as well as **engineered a Full Event Scheduling Module** supporting recurring events, conflict detection, and calendar-style visualization to streamline academic and administrative planning.
- Contributed to the modernization of a large legacy **React codebase by migrating it to Next.js** (CSR-only), introducing Redux Toolkit, RTK Query, and TypeScript, improving code maintainability and **reducing API integration boilerplate by 40%**
- Contributed to the **development of secure JWT-based authentication** as well as many critical functionalities across the platform, improving session handling, protected-route security, and integration with the ERP's existing user roles.

PROJECTS

ProFinder (GitHub) | NestJS, NextJS, PostgreSQL

- Built a full-stack platform allowing users to search for professionals by profession and city, featuring optimized server-side queries and a responsive Next.js interface.
- Designed a two-role system where providers can create new professions or link themselves to existing ones, enabling scalable content growth. Implemented secure JWT authentication, role-based access control, and middleware-protected routes for both normal users and providers.
- Integrated Google OAuth to enable faster onboarding and reduce friction during login.
- Developed modular, production-grade NestJS APIs with validation, DTO mapping, and efficient database access patterns.

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, Java, SQL (Postgres)

Frameworks and Others: NestJS, NextJS, Node JS, React, Material-UI

Developer Tools: Git, VS Code, Visual Studio, IntelliJ, Postman

EDUCATION

Guru Nanak Dev Engineering College

Bachelor of Computer Applications (9 CGPA)

Ludhiana, Punjab

Aug. 2021 – May 2024