

Dinkar Gupta

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Technical Skills

Languages: JavaScript, Python, C, C++, SQL

Frontend & Testing: React.js, Next.js, Tailwind CSS, Redux Toolkit, RTK Query, TypeScript, Material UI, Vitest, Jest

Backend: Django, Django REST Framework, FastAPI, Node.js, Express.js, REST APIs, Redis

Databases: PostgreSQL, MongoDB, MySQL, Firestore

Cloud & DevOps: AWS, Docker, Linux

Tools & Technologies: Git, GitHub, GitLab, OpenSearch, Postman

Experience

• Software Development Intern

September 2025 - Present

Josh Technology Group (JTG), Gurugram

- Developed **2 production-grade React dashboards** using **Redux**, supporting **1000+** examinations through data aggregation, analytics, and workflow management, enabling faster operational insights.
- Built a backend-driven dynamic form renderer using **React Hook Form** and **Yup**, featuring **4 configurable parameters** and an extensible architecture for new field types and validation rules, simplifying the integration of configurable forms across the application.
- Resolved app-wide caching issues and optimized data-fetching strategies, improving page load times by **25%**.
- Created a centralized examination email notification system using **Python, ARQ, and scheduled background cron jobs** to automate collaborator reminders across workflows, improving overall user productivity.
- Optimized existing result publishing flow by reducing database queries by **10%** and developing cleanup scripts for stale participant records across **500+ participants per event**, resulting in a **45%** reduction in processing latency.

Projects

• BookMovies - Movie Booking Web Application

[Backend Repo](#) / [Frontend Repo](#)

Scalable movie ticket booking platform with location-based movie and cinema discovery

- Architected a centralized data layer using **RTK Query**, integrating multi-token authentication, automatic token refresh through API interceptors and request deduplication to standardize data fetching and server-state management across the application.
- Engineered reusable custom hooks and components, including an infinite scroll solution powered by the **Intersection Observer API**, reducing duplicate logic while supporting efficient cursor-based pagination.
- Implemented serializable URL-based filters for movies, cinemas, and slots, enabling bookmarkable searches, SEO-friendly shareable URLs, and improved content discoverability.
- Ensured reliable concurrent seat booking through **atomic database transactions**, eliminating race conditions and maintaining **100% seat allocation consistency** across concurrent booking requests.

• The Willow Paradise - Hotel Management Solution

[Employee Portal](#) / [User Portal](#)

Full-stack hotel reservation platform with dedicated employee and customer portals

- Streamlined hotel operations by designing an employee-facing management portal using **TanStack Query**, **Styled Components**, and **Supabase**, featuring analytical dashboards, reservation management, and role-based operations to efficiently manage **1000+ reservations**.
- Delivered a user-facing hotel reservation platform in **Next.js** with **Context API**, integrating secure authentication with **NextAuth**, profile management, and self-service booking across **7+ cabin categories**, allowing customers to independently create, modify, and cancel reservations.

Achievements

- Appointed and served as **President of Computer Engineering Society, MMMUT, Gorakhpur**, leading and managing **6+** district and university level coding events during the session **2025-26**
- **1500+** Coding Problems Solved across all platforms
- **3 Stars with Max Rating of 1604** on CodeChef
- **Max Rating of 1658** on LeetCode
- **Finalist**, Smart India Hackathon at university level

Education

• Madan Mohan Malaviya University of Technology, Gorakhpur, Uttar Pradesh

2022-2026

Bachelor of Technology in Computer Science and Engineering

CGPA: 8.41

- **Relevant Coursework:** Database Management Systems, Operating Systems, Computer Networks