

Yash Goel

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EDUCATION

Netaji Subhas University of Technology

Bachelor of Technology, ICE

Aug. 2023 – Present

Delhi

EXPERIENCE

Backend Engineer

Flywheel

March. 2026 – Present

- Consolidated chat and voice backends into a single FastAPI service, reducing duplicate code by **40%** and simplifying feature delivery across teams.
- Designed and shipped a 5-turn non-meaningful call-termination gate on Amul AIs voice helpline, automatically ending calls stuck on unclear speech, STT failures, or repeated fillers instead of looping the full LLM pipeline triggering 500+ graceful hangups, saving an estimated **\$0.40–\$0.50** per call in avoided agent, STT/TTS, and telephony spend.
- Shipped milk-collection, vet and AI-technician booking tools on Amul AIs chat + voice stack, enabling farmers to check payout/deduction history and schedule livestock services in Gujarati, enabling **1,200+ lookups** and **650+ call bookings** in production, replacing manual passbook reconciliation and phone bookings.
- Optimized PostgreSQL schema and query paths for **2,000+ glossary entries**, reducing query latency by ~30% and enabling real-time content **updates without redeployments**.
- Owned integration of **Langfuse telemetry** across chat and voice AI backends, improving debugging and observability efficiency by **40%** through centralized tracing and monitoring of LLM workflows.
- Worked on Kubernetes cluster operations including node lifecycle management, autoscaling validation, and deployment scheduling using Kubernetes primitives such as cordon, drain, taints, and node selectors.

PROJECTS

RBAC-Enabled Backend System | GitHub

- Built a **role-based access control system** to manage dashboard and API permissions across multiple user types.
- Designed an extensible permission model for actions such as **view_all_dashboards**, **add_user**, and **edit_record**, enabling new roles and policies without schema changes.
- Implemented secure financial record management APIs with role-restricted access to sensitive data and authorization checks at the application layer.

Orbit | GitHub | Live

- Developed a responsive frontend using **Next.js** and **Tailwind CSS**, building **35+ reusable UI components** with accessibility and mobile-first design in mind.
- Integrated frontend screens with backend data using **Node.js** and **MongoDB**, focusing on clean state management and reliable data display.

SKILLS

Languages: Python, C++, SQL, JavaScript, HTML/CSS

Backend: FastAPI, REST APIs, Redis, Session Management, PostgreSQL

Databases: MongoDB, MySQL, Data Modeling, Marqo

Frontend: React.js, Next.js, Tailwind CSS

AI / LLM: LLM Integration, Prompt Engineering, Context Management, Conversational AI, Moderation Pipelines

Tools: Git, GitHub, Linux, Langfuse

Areas of Interest: Data Structures & Algorithms, DBMS, OOPS

Positions of Responsibility

President: Crescendo NSUT

- Managed a **40+** member team, overseeing performances in **20+ events** across Delhi.
- Directed **7+** leads and sponsors for the flagship event, achieving a footfall of **10k+** attendees.