Prerna Sharma

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Summary

Full-stack developer and Computer Science undergraduate with hands-on experience shipping production-grade, AI-driven web applications. Proficient in the modern JavaScript ecosystem including Next.js, React, Node.js, and TypeScript, with a growing specialization in Generative and Agentic AI using LangChain, LangGraph, and multimodal LLMs. Strong foundation in Data Structures & Algorithms with **400+ problems solved** on LeetCode. Driven by a bias for shipping: building clean, production-ready systems that solve real problems at scale.

Education

Bhagwan Parshuram Institute of Technology — Delhi

B.Tech in Computer Science Engineering | CGPA: 9.2 — *2024 – 2028*

Experience

Junior Council Member — 2024 – Present

Anveshan Technical Community, BPIT — *New Delhi, India*

- Spearheaded **5+ technical events** including workshops, coding contests, and speaker sessions, reaching **200+ students** and measurably increasing semester-on-semester participation rates.
- Coordinated with faculty, volunteers, and council leads to manage end-to-end event logistics, improving planning turnaround through streamlined task delegation and communication workflows.
- Curated session topics aligned with industry demand, including DSA, full-stack development, and open-source contribution, establishing Anveshan as a leading technical learning platform on campus.

Projects

SkillWise AI | **GitHub** | **Demo**

React 19, Express, Bun, Turborepo, Prisma, PostgreSQL, Gemini 2.5 Flash

- Developed a personalized AI interview platform that ingests a candidate's GitHub profile, including pinned repos, languages, and tech fingerprint, to generate role-specific questions, replacing generic prompts with context-aware assessments for **3x more relevant** interview sessions.
- Implemented real-time voice analytics tracking WPM and filler-word frequency, paired with Gemini 2.5 Flash multimodal inference on mid-answer frame snapshots to classify confidence states and adapt interviewer tone dynamically.
- Architected a multi-persona deliberation layer with three evaluator roles (Tech Lead, System Architect, Engineering Manager) generating structured, dimension-wise scorecards that cut post-interview feedback time by **60%** compared to unstructured verbal debriefs.

PulseTrack | **GitHub** | **Demo**

Next.js, TypeScript, PostgreSQL, Prisma, Groq (Llama 3.3 70B), Inngest

- Deployed a competitor intelligence platform automating daily scraping and change detection across **10+ sources**, eliminating **4–5 hours/week** of manual monitoring for product and strategy teams.
- Integrated Groq's Llama 3.3 70B to transform raw scraped diffs into prioritized strategic analysis reports, cutting time-to-insight from hours of manual review to under **60 seconds** per competitor update.
- Modelled a PostgreSQL + Prisma change-history schema with snapshot diffing logic, achieving a **70–80% reduction** in manual research overhead while maintaining full audit trails across tracked sources.

CloudWise AI | **GitHub** | **Demo**

Next.js, FastAPI, PostgreSQL, Multi-AI Agent, REST APIs

- Engineered a multi-agent SaaS platform that monitors AWS EC2, GCP, and Azure usage in real time and surfaces cost-saving recommendations, targeting a **20–30% reduction** in monthly cloud spend for early-stage startups.
- Designed an agent orchestration layer to detect cross-cloud inefficiencies such as idle instances, over-provisioned resources, and unoptimized schedules, ranking each recommendation by projected savings impact.
- Shipped an interactive Next.js dashboard backed by FastAPI REST endpoints, enabling non-technical stakeholders to action infrastructure decisions independently and cutting DevOps involvement in routine cost reviews by **40%**.

Technical Skills

Languages: Java, Python, C/C++, JavaScript, TypeScript, SQL (PostgreSQL)
Frontend: React.js (incl. React 19), Next.js, HTML5, CSS3, Tailwind CSS
Backend: Node.js, Express.js, FastAPI, Bun, REST APIs, WebSockets
Database & ORM: PostgreSQL, MongoDB, Prisma
Gen AI / Agentic AI: LangChain, LangGraph, RAG, Multi-Agent Systems
DevOps & Tools: Git, GitHub, Inngest, VS Code, Postman, Docker
Core Concepts: Data Structures & Algorithms, OOP, Database Management Systems

Achievements

Top 5 of 200+ Teams: Brewing Codes 4.0 Hackathon
Delivered a full-stack product under competitive time constraints, placing in the top 2.5% of all teams

Smart India Hackathon (SIH): University Qualifier
Shortlisted among 170+ university teams; proposed and prototyped an end-to-end technical solution

400+ DSA Problems | 20+ Competitive Programming Contests
Active on LeetCode & CodeChef; consistent practice across arrays, trees, graphs, DP, and greedy algorithms