PRANAV GAUTTAM

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SUMMARY

Software Engineer with hands-on experience building production backend systems, AI-powered platforms, and full-stack applications. Automated an ETL pipeline that cut API response time 95% and built multi-tenant PostgreSQL architectures for real production traffic. Collaborated across cross-functional and international teams to ship features on tight deadlines, achieving 87% test coverage using TDD. Skilled in Python, Django REST Framework, Next.js, and LLM-based AI systems (RAG, LangChain, OpenAI and Gemini APIs).

EXPERIENCE

AI Consultant, Praitunova Infotech LLP **Jul 2026 - Present**

Freelance (project-based) | AI Automation, LLM Agents, Voice AI, WhatsApp Automation, Candidate Sourcing

- Delivered 4 AI automation products for business clients across recruitment, healthcare, and order-confirmation workflows
- Built Talentscan, an AI recruitment platform sourcing from 3 portals (Naukri, LinkedIn, GitHub) with keyword-based resume grading
- Developed Quillbot, a WhatsApp healthcare assistant for tobacco addicts with 3 modules: engagement, AI chat, auto follow-ups
- Built AI voice agents that call buyers to confirm orders and auto-route each update to the responsible team
- Built a Jarvis-inspired personal AI voice assistant alongside the 3 business automation products above

Software Engineer Intern, Mphasis **Feb 2026 - May 2026**

Hyderabad, India | Python, Django DRF, PostgreSQL, Celery, Redis, Docker, Nginx, pytest, Chart.js, JWT

- Built and automated an async ETL pipeline (Celery + Redis) for InsightIQ as sole engineer, reducing API response time 95% (4s to 180ms)
- Designed a multi-tenant PostgreSQL schema with composite indexes, eliminating N+1 queries and reducing DB round-trips 60%
- Developed a full production stack: Django REST API, AI forecasting (Linear Regression, Moving Average), Chart.js dashboard, Docker Compose (5 services)
- Achieved 87% test coverage with a 40+ test suite spanning unit, API contract, pipeline integrity, and edge-case tests using pytest and TDD

Engineering Intern, SERVIZ **Dec 2024 - Jan 2025**

Remote | Angular, Next.js, Node.js, MongoDB, REST APIs, Bootstrap

- Built a full HR Management System solo in a 2-month sprint: multi-role access control, leave management, and payroll modules
- Engineered a real-time data sync API, cutting update latency 99% (120s→200ms), and authored full API reference and onboarding docs

PROJECTS

DriftGuard - Full-Stack AI Deployment Control Platform **Live, 2026**

Next.js, TypeScript, Gemini 2.5 Flash, text-embedding-004, Supabase, Three.js, D3.js, Clerk, Vercel

- Developed a full-stack AI deployment control platform using Next.js, TypeScript, and Gemini 2.5 Flash to detect and gate AI regressions
- Built a CI/CD-style gating engine with adversarial testing that classifies regressions into 4 tiers with PASS/WARN/BLOCK verdicts
- Implemented multi-tenant Supabase RLS, dual authentication (Clerk + API key), and Three.js/D3.js data visualizations across 8 dashboard pages

QueryMind - Multi-Agent RAG Reasoning System **Live, 2025**

Python, LangChain, ChromaDB, FAISS, OpenAI API, HuggingFace, Streamlit

- Architected a multi-agent RAG pipeline in Python/LangChain covering PDF ingestion, embeddings, ChromaDB storage, and LLM response generation
- Designed recursive chunking (500-token windows, 50-token overlap), MMR retrieval, and source-cited LLM responses per agent
- Reduced hallucinations via system-prompt grounding and similarity-threshold fallback, gracefully handling API timeouts and parse failures

DataBot - Natural Language to SQL Engine **Live, 2025**

Python, LangChain, OpenAI API, SQLite, Plotly, Streamlit

- Built a natural-language-to-SQL engine in Python and LangChain, converting CSV data into schema-aware, queryable SQLite databases
- Implemented SQL generation with pre-execution validation and automatic Plotly chart rendering for query results
- Validated the pipeline across 30+ query types using an LLM self-correction loop to auto-fix failed SQL queries

TECHNICAL SKILLS

Languages:	Python (primary), SQL, TypeScript, JavaScript, Bash, HTML/CSS
Frontend:	Next.js, React, Angular, Chart.js, Bootstrap, Responsive Design
Backend:	Django DRF, Node.js, Celery, Redis, REST APIs, JWT Auth, OAuth, Async Processing
Databases:	PostgreSQL (multi-tenant, indexed, optimized), MongoDB, SQLite
DevOps/Cloud:	Docker, Docker Compose, Nginx, GCP, AWS (EC2, S3, Lambda), Vercel, CI/CD, Git, Linux
AI/ML:	LangChain, LangGraph, RAG, Agentic Workflows, OpenAI API, Gemini API, ChromaDB, FAISS, HuggingFace, Prompt Engineering
Testing:	pytest, TDD, Unit Testing, API Testing, Integration Testing, Data Validation Testing

EDUCATION

B.E., Computer Science & Engineering, Thapar Institute of Engineering & Technology (TIET), Patiala **Sep 2022 - Jun 2026**

CGPA: 7.8 | Relevant coursework: Data Structures & Algorithms, Machine Learning, DBMS, Computer Networks, Software Engineering

LEADERSHIP & OPEN SOURCE

Head of Management, MudraSociety, TIET **Jul 2023 - Jun 2024**

Patiala

- Advanced from Member to Head of Management within 6 months, leading a 60+ member student organization and coordinating strategic direction, events, and team operations

Open Source Contributor, GirlScript Summer of Code **May 2024 - Aug 2024**

Remote

- Collaborated with distributed international maintainer teams on async code review, contributing bug fixes, features, and docs across production repos