Gagan Raj Bojja

AI Engineer | Applied AI & Full-Stack | Python, Rust, TypeScript

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SUMMARY

AI and full-stack engineer who owns features end to end, from customer calls to production. Ship a working version, then benchmark and fix the bottlenecks.

EXPERIENCE

Techcora · Chennai · full-time — Dec 2024 - Present

AI Engineer · Dataweaver, AI desktop application · dataweaverapp.com — Feb 2026 - Present

- **Built an AI app** for working with spreadsheets, documents and databases through plain-language requests: desktop app (React UI on a Rust core, with Tauri), website and web dashboard (Angular), and a FastAPI LLM gateway with billing; in production since January 2026.
- **Work directly with prospective customers and pilot users**, including an enterprise payments design partner: outreach, onboarding and feedback calls that shape priorities, design and usability.
- **Built on-device RAG with BM25 search**: the agent finds the right lines across a user's documents and scans and answers with page-and-line citations; web pages are cut to the best passages.
- **Cut peak memory by 90%** while indexing 240 PDFs (64,889 pages) for search, and p99 read latency during indexing from 3.14 s to 1.32 s.
- **Cut text-to-SQL schema context by 96%** (400 tables) by retrieving only the tables a question needs.
- **Built the tool-calling agent** with live step streaming, sandboxed Python, evals and guardrails: personal-data masking in each agent turn, and no writes or sends after reading a web page.
- **Improved OCR word recall from 75.7% to 94.0%** on a 1,000-page internal English/Hindi/Telugu benchmark through a second reading pass and fine-tuned readers; shipped in v0.16 (Oct 2026).
- **Shipped number checking** in v0.16 (each figure in an answer is checked against the user's files) and bank statements to Excel with every row checked against the balances.
- **Built LLM provider fallback** across Anthropic, OpenAI, Gemini, xAI and Groq with circuit breakers, and per-call monitoring of token usage, cost and latency.

Full Stack & Embedded Engineer · TrackFleet AI and education ERP — Jun 2025 - Jan 2026

- **Led TrackFleet AI with a team of interns**: shipped a GPS fleet-tracking MVP in under 21 days, first users live on 5 vehicles by day 28; later used by 20+ fleet operators in Qatar (800+ vehicles).
- **Built the Rust service that receives and decodes vehicle tracker data**; monthly GPS records grew from 0.36 million in July to 10.5 million in September 2025.
- **Built 24 reports for fleet managers**, including driver-safety scorecards to QatarEnergy's IVMS standard, with PDF, Excel and CSV export, alerts and scheduled email reports.
- **Added Arabic and English support** (right-to-left layout, 1,000+ translated strings) and built tracker simulators that drive virtual vehicles along set routes, so alerts could be tested without real vehicles.
- **Built an education ERP for a school group's tender**: planned delivery with junior engineers, built the admissions and alumni modules and started HR and finance (Angular, Rust, Odoo).
- Interviewed intern candidates and mentored approximately ten interns.

Software Engineer Intern — Dec 2024 - Jun 2025

- **Built TrackSchoolAI in three weeks**: face/NFC check-in with on-device face-embedding matching, live bus tracking for parents, FastAPI on Google Cloud Run; two Google Play apps (React Native).
- **Built CoraPresence**, an offline face-recognition attendance camera (MaixCAM, FastAPI, PostgreSQL).

EXPERIENCE, CONTINUED

Freelance Software Engineer · SkyAstrall — Oct 2024 - Present

Part-time, remote · My freelance client work since Oct 2024, built with clients and end users · skyastrall.com

Palm Mystery · AI palm reading and tarot kiosk

- **Delivered touchscreen kiosk software after client acceptance testing**, with camera capture, device control, AI palm readings and rule-based tarot, and printed results in English, Telugu and Hindi.
- **Integrated the Razorpay payments API** (UPI QR) with webhook signature checks, duplicate handling and status checks for missed notifications; added session recovery and SQLite-queued device events, tested with simulated printer faults.

AWH Clinics · Clinic content-management platform

- **Implemented role-based access controls**, governed publishing and append-only audit records for a clinic content-management platform, with API authorization and audit regression tests (TypeScript, Hono, Cloudflare D1).

Software Developer · Ruby 8 Investments — Aug 2024 - Dec 2024

- Built Python web scrapers (BeautifulSoup) for a UK client as a paid remote freelancer.

Freelance Software Developer · Fiverr — Nov 2019 - Oct 2024

- Built Python desktop tools, automation, scrapers and Django applications for clients in India and abroad; Level 2 seller with a 5.0 average rating.

Embedded Software Engineer · Contract — Feb 2022 - Jan 2023

- Wrote an STM32 bootloader and firmware, automated hardware tests and desktop control apps (Python, PyQt5, serial).

OPEN SOURCE & SELECTED PROJECTS

Open-source contributions — Pendulum #952 · deptry #1517 · teloxide #1451, #1474

- **Contributed Python 3.14 free-threading support** to Pendulum and deptry (wheel builds, CI, concurrency tests) and added three missing API error types to teloxide, a Rust Telegram bot library. All four PRs merged; Pendulum's shipped in 3.3.0.

Mentions · Open-source library — github.com/SkyAstrall/mentions

- Built a reusable @mention library for React, Vue, Svelte and Angular; added unit and browser tests, bundle-size checks and framework-compatibility checks in CI.

AgentMesh · Personal project — 2026

- Experimental Rust multi-agent system: agents exchange messages, keep context in SQLite and switch model providers, with MCP integration.

SKILLS

Languages: Python, Rust, TypeScript, SQL, C

Frontend & delivery: React, Angular, React Native, Tauri, Docker, GitHub Actions, GCP (Cloud Run, VMs)

Backend & data: REST APIs, FastAPI, Django, Axum, PostgreSQL, SQLite, Polars, Cloudflare Workers

AI systems: RAG (BM25, SQLite FTS5, citations), tool-calling agents, text-to-SQL, evals, guardrails, prompt engineering, LLM APIs (Anthropic, OpenAI, Gemini), MCP, PII masking, code sandboxes

Working knowledge: vector databases and embeddings, LangChain, AWS

AI-assisted development: Extensive hands-on use of Codex and Claude Code

EDUCATION

B.Tech, Computer Science and Engineering · Vel Tech University, Chennai — 2022 - 2025

Diploma, Computer Engineering · VMR Polytechnic, Warangal — 2019 - 2022