Chaitanya Pawar

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Education

- **Government College of Engineering** — Chhatrapati Sambhajinagar, India
  Bachelor of Technology in Information Technology; Percentage: 69% — *2023 – 2027*

Experience

- **Zero (B2B EdTech SaaS for ICSE schools)** — Aug 2026 – Present
  Full Stack / Backend Developer — *TypeScript, Python, Supabase*
  - **Subscriptions**: Built Razorpay subscription billing, driven by payment webhooks, on a multi-tenant platform.
  - **Bulk Import**: Built CSV student import that onboards 200 students in a single upload.
  - **Timed Tests**: Built timed tests with auto-grading; the timer and scoring run on the server, not in the browser.
  - **Alerts**: Building one-way WhatsApp alerts that message parents when a test is declared.
- **Shri Venkatesh Pvt. Ltd. (Hardware Retail)** — Dec 2024 – Present
  Freelance Full Stack Developer — *Sole developer*
  - **Website**: Built the company website and backend from scratch: a 200+ product catalogue, showroom gallery, reviews, and a JWT-secured admin panel the owner uses to update all of it without a developer.
  - **B2B Bookings**: Built advance booking for business buyers (email requests + payment gateway); tested the frontend with Selenium.

Projects

- **Data Fog Agent** — Nov 2026
  Python, FastAPI, PostgreSQL + pgvector, Redis, Next.js, Docker, MCP *github.com/ChaitanyaPawar21/data-fog-agent*
  - **Agent**: Built an AI agent that syncs Postgres databases, a file drive and a Slack export into one data catalogue and answers questions with 6 tools, including guarded SQL (SELECT only, read-only transaction, 10s timeout).
  - **PII Guard**: Finds Aadhaar, PAN, phone and email (regex + Presidio) and masks them before text reaches the LLM: 100% recall on 26 labelled columns. Batching Presidio calls cut a full scan from 48.5s to 8.6s (5.6x).
  - **Evals and Tests**: Passes 51/51 questions in its eval suite (answers, permissions, refusing to reveal PII); 97 pytest tests run against a real Postgres in GitHub Actions CI.
  - **Security and MCP**: Postgres row-level security separates organisations. An MCP server exposes 7 tools behind per-user tokens (60 requests/min); p95 of 58 ms per MCP SQL call, measured locally.
- **CodeAstra** — Jul 2026 – Present
  TypeScript, Node.js, Express, MongoDB, LangGraph, React — *github.com/ChaitanyaPawar21/CodeAstra*
  - **Pipeline**: In a team of 4, built a tool that takes a GitHub repo URL and returns folder purposes, the entry point and a dependency graph from 3 parallel LLM analyses (LangGraph). Co-authored a research paper on it.
  - **Dependency Mapping**: Built the import-graph module for JS/TS, Python and Java, plus a parser-only fallback so the API still returns a result when the LLM call fails.
  - **Performance**: Cut analysis time from about 105s to 20s by replacing a retired model; repeat requests are served from a MongoDB cache keyed by the SHA-256 of the repo URL.

Programming Skills

- **Languages**: C++, JavaScript, TypeScript, Python, Java, SQL
- **Backend**: Node.js, Express, FastAPI, Spring Boot, REST APIs, JWT, PostgreSQL, MongoDB, Supabase, Redis
- **GenAI**: LangGraph, AI agents, LLM tool calling, MCP, embeddings (pgvector), LLM evals
- **Tools**: Docker, GitHub Actions, Git, Linux, Selenium, Postman, React, Next.js
- **Fundamentals**: Data Structures and Algorithms, OOP, DBMS, Operating Systems, Computer Networks

Achievements and Leadership

- **Problem Solving**: Solved 200+ DSA problems on LeetCode in C++ (leetcode.com/u/rapt0r21).
- **Leadership**: Head of Hackslash college coding club (2025 – 2026); led a 100+ participant national-level hackathon.
- **Open Source**: Contributor to Open Food Facts (fixed a broken redirect, added removal of item pictures); GSSoC 2026.