Yash Jaiswal

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SUMMARY

AI augmented full stack engineer who ships reliable AI products to real users. I own projects end to end, use agentic AI coding tools (including Claude Code) as my default, and focus on where LLMs help versus where they quietly produce wrong output. Comfortable in the terminal and Git; I learn new tools from the docs. Python and TypeScript.

TECHNICAL SKILLS

AI & LLM: LLM orchestration, constrained tool calling, prompt engineering, structured output (Zod), Vercel AI SDK, Ollama, Claude, Gemini, Groq
Languages: TypeScript, JavaScript, Python, C++, Rust, C, SQL, HTML, CSS
Frontend: React 19, Next.js 16 (App Router, RSC), Tailwind CSS v4, Zustand, D3, Vite, Responsive Design
Backend & Data: Node.js, REST APIs, FastAPI, PostgreSQL, MongoDB, MySQL, Redis, Prisma, Drizzle, Qdrant
Systems & Tooling: Git, terminal, Docker, CI/CD, agentic AI coding tools (Claude Code), pytest, Sentry, Inngest, Clerk, Polar, Puppeteer
CS Fundamentals: Data Structures & Algorithms, DBMS, OOP

PROJECTS

Caliper: Air-Gapped Agentic Workbench for Industrial Documents Since Sep 2026
Smart India Hackathon 2026 (Team CacheMe!=404) · Python · FastAPI · SQLAlchemy · React 19 · Vite · Ollama · LiteLLM · Qdrant · Docling · Tesseract

- Built a fully offline AI workbench (SIH 2026, MRPL PS 26117) that reads P&ID diagrams, scanned inspection reports, and SOPs, computes values deterministically, and cites the exact page region used, with 5 local models served via Ollama and LiteLLM.
- Designed a citation gate that rejects any model proposed value not literally stated on the cited page, plus a 4 tier data egress verification system proving nothing leaves the machine; 540 passing tests and a 24/24 fully offline verification run.

Code: github.com/yashjaiswal2818/sovereignAI

Bender: AI UI Generation & Synthetic User Testing Platform Jan 2026 to Aug 2026
Founder & Full-Stack Engineer · Next.js 16 · React 19 · TypeScript · MongoDB · Vercel AI SDK · Inngest · Clerk · Polar · Puppeteer

- Built a SaaS that generates UI from design contracts and pressure tests it with synthetic user personas, using a deterministic Puppeteer layer that detects dead clicks, broken links, console errors, and contrast failures, with LLMs interpreting results rather than measuring them.
- Implemented a fix and retest loop with versioning, quality gates, and benchmarking, plus Polar billing with a webhook handler that classifies retriable versus permanent failures, Clerk auth, and durable Inngest jobs; 120+ commits over about 8 months.

Live: benderai.app

Stepwise: Interactive DSA Visualizer with AI Tutor Since Jul 2026
Solo Developer, Open Source (MIT) · Next.js 16 · React 19 · TypeScript · Tailwind v4 · Zustand · Motion · D3 · Neon Postgres

- Built and deployed a learning platform, now used by 30+ students, that animates 19 algorithm problems and 12 lessons across 8 custom SVG renderers, with a deterministic execution trace engine emitting typed state snapshots for smooth motion, O(1) step back, and scrubbing.
- Built “Ada”, an AI tutor using LLM tool calling that controls the visualizer (jump to step, play, change input) rather than rendering itself, plus predict before reveal quiz gates, line synced JavaScript, Python, and C code views, and GitHub OAuth.

Live: stepwise-beta.vercel.app **Code:** github.com/yashjaiswal2818/stepwise

ClauseWise: Indian Loan & Rental Agreement Analyzer Aug 2026 to Sep 2026
Solo Developer · Next.js · TypeScript · Python · spaCy · Clerk · Neon Postgres · Groq · Gemini · IndicTrans2 · Docker

- Built a web app that breaks Indian loan and rental agreements into clauses and explains risks in plain language, with a deterministic core (rule based clause risk, FOIR affordability arithmetic, missing clause checklist) that keeps working with no AI.
- Implemented a privacy first pipeline: in memory extraction (files never written to disk), PII redaction (PAN, Aadhaar, IFSC, GSTIN, phone, names via spaCy) before any model sees the text, AES-256-GCM at rest, and multilingual output in 4 Indian languages via IndicTrans2.

Code: github.com/yashjaiswal2818/clausewise

EXPERIENCE & LEADERSHIP

Google Developer Groups on Campus, PCE *Lead & Organizer* Since 2025

- Lead the GDG on Campus chapter at Pillai College of Engineering, organizing technical events and community initiatives, and built the event platform for a 5 round technical bootcamp with team auth, submissions, and automated scoring.

Freelance Web Developer *Rizzé Co., grip socks & activewear brand (Remote, Paid Client)* 2026

- Built and shipped an end to end e-commerce storefront (Next.js, React, TypeScript, Tailwind) integrated with Shopify, with a product catalog, collections, product pages, cart, wishlist, accounts, and email capture. **Live:** rizze-plum.vercel.app

EDUCATION

B.Tech in Information Technology, Pillai College of Engineering, Panvel Expected May 2028
CGPA: **9.03 / 10** · Coursework: Data Structures & Algorithms, DBMS, Operating Systems, OOP