

AMAN KUMAR CHHARI

Applied AI Engineer (Full-Stack) · TypeScript · Next.js · Claude API

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[Portfolio](#) | [GitHub](#) | [LinkedIn](#)

SUMMARY

Applied AI engineer who ships AI features in real products with guardrails (one model gateway, spend caps, tool use, human approval, evals) and Apache JMeter load testing. End-to-end delivery, from system design to deployment. B.Tech CSE 2026.

TECHNICAL SKILLS

AI & LLM	Claude API & Anthropic SDK, OpenAI API, agentic workflows, multi-agent orchestration (Fetch.ai uAgents), tool use / function calling, prompt engineering, structured outputs (Zod)
AI Safety & Quality	Guardrails, prompt-injection defense, human-in-the-loop approval, LLM evaluations, cost / token / latency logging
Languages	TypeScript, JavaScript, Python, SQL
Frontend	React 19, Next.js 15 (App Router, Server Actions), Tailwind CSS, shadcn/ui, Chrome Extension MV3, Capacitor
Backend & APIs	Node.js, Express.js, FastAPI, REST APIs, Supabase Edge Functions, Clerk, Razorpay webhooks, rate limiting
Databases	PostgreSQL, Supabase (RLS, Realtime, Storage), Firebase, MongoDB, IndexedDB
Testing & Performance	Apache JMeter (load, race and failover tests; p95 and throughput analysis), Vitest
DevOps & Tools	Git, GitHub Actions, Vercel, Netlify, Figma

PROJECTS

CloseBy: AI-Assisted Hyperlocal Marketplace for Neighborhood Shops Live · [GitHub](#) · [Case Study](#) · 2026

TypeScript, Next.js 15, Supabase Postgres, Clerk, Claude API, Razorpay, Apache JMeter

- Developed a two-sided marketplace for nearby buyers and local shops: geohash radius search, role-based dashboards, live order updates (Supabase Realtime) and in-order chat.
- Routed every LLM call through one gateway (role check → rate limit → kill switch → daily spend cap → tool loop → cost logging); under load, the spend cap blocked **100% of over-cap calls** before any model call.
- Designed draft-only AI helpers: tool-based catalog reads and stock-import proposals from shelf photos and voice lists, saved only after owner approval; Zod-validated output and **27 evaluation test cases**.
- Load-tested checkout with JMeter: 50 buyers racing for the last 5 units → **0 oversells** in 4/4 runs (row locks in one transaction); **800 concurrent orders at ~160/s** with 0 errors; search **p95 153 ms** at 50 users.
- Seven-state order machine and integer-paise money; Razorpay holds stock until payment confirmation and auto-refunds rejected orders.

ScanCart.ai: Parallel Multi-Agent Trust Scoring for Indian E-Commerce Live · [GitHub](#) · [Case Study](#) · 2026

JavaScript, Node.js / Express, Claude API, Chrome MV3, React, Clerk, Firebase, Apache JMeter

- Created a Chrome extension that rates a product listing for counterfeit and fake-review risk: six specialist LLM agents run in parallel, then a compliance agent combines the results into one weighted Trust Score.
- Parallel fan-out cut scan time **2.8×** (13.7 s → 4.8 s); JMeter at 50 concurrent users: 200 scans, 0 errors; with one agent hung, **100% of scans** still completed via per-agent timeouts.

Stack: Local-First Reading App with Spaced Review of Highlights [GitHub](#) · [Case Study](#) · 2026

TypeScript, Next.js 16, Capacitor (Android), IndexedDB, Supabase Edge Functions, Claude · OpenAI · Gemini · Groq · Sarvam

- Shipped a solo web + Android reading app from one Next.js codebase: save articles and PDFs, highlight, review 3 old highlights daily; fully offline in IndexedDB with optional sync.
- Kept AI server-side in one Supabase Edge Function with a fallback chain across five LLM providers; JMeter: **500/500 requests served** with the top two providers down (p95 1.6 s), and 80 simultaneous requests stopped at **exactly the 50/day cap**.

EXPERIENCE

Web Development Intern · Zidio Development, Remote Aug 2024 – Sep 2024

- Delivered full-stack features with React, Node.js, Express and MongoDB (component-driven UI, REST APIs); supported deployment and testing.

EDUCATION

Jaypee University of Engineering & Technology, Guna · B.Tech, Computer Science & Engineering 2022 – 2026

ACHIEVEMENTS

- Finalist (600+ teams), Hacksagon 2025, ABV-IIITM Gwalior, as team MANAD ([certificate](#))
- Selected pitch, Rajasthan AI Builders Pitch-a-Thon 2026, e-Governance Conference, Jaipur, with ScanCart.ai ([certificate](#))
- Winner, Reimagine Web Dev & Component Making Hackathons · National Finalist, HackGSon · Semi-Finalist, SIH · 7th Rank, Skill-A-Thon 2024