

CHAITANYA SHARMA

AI & Full-Stack Developer · SaaS & Internal Platforms · LLM Systems · Business Automation

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SUMMARY

AI & full-stack developer who designs, builds and operates production software end to end. Sole engineer of a live real-estate SaaS (16 API routers, 20 domain services, 311 automated tests, live Stripe billing), builder of a sales & operations portal for a US solar company, and the engineer behind AI, voice and CRM automation for 13+ businesses across four countries. Works daily in Python/FastAPI, React/TypeScript, MongoDB/PostgreSQL/Redis, Claude/OpenAI, n8n and GoHighLevel. Anthropic **Claude Certified Developer – Foundations** (896/1000, 2026) and **1st place nationally** at the ISRO Bharatiya Antariksh Hackathon 2025 (#1 of 8,744+ teams).

EXPERIENCE

Sole Founder & Proprietor — Charyx Labs

Nov 2024 – Present

AI product & engineering studio — remote, clients in the US, Japan, Australia and India

- Own delivery across **13+ live client systems** in real estate, home services, solar, medical AI, education and AI SaaS, most inherited rather than greenfield; 4.8★ average client rating.
- Conversational & voice AI**: an n8n + OpenAI website assistant that qualifies leads, answers from a knowledge base, books appointments and hands over to a human with full context (Sharp Edge Property Group); **Retell AI** voice agents that answer inbound calls, qualify, book and trigger SMS follow-up (One Stop Redding Junk Removal).
- CRM automation** on GoHighLevel and n8n: dynamic funnel generation and lead routing with custom JavaScript workflow logic (Andrew Homes Real Estate Masterclass), IVR call routing, missed-call text-back, and one-trigger multi-channel outreach (email, SMS, CRM, tasks) with retries and monitoring.
- Built a **custom MCP server** and agent suite exposing structured operations to LLM clients with schema validation at the boundary; shipped Life Search AI (on-device OCR incl. Devanagari + Claude) and DocuMind (local-first, on-device RAG).
- Also built Windmillsat (real-time maritime vessel monitoring on Node.js, TimescaleDB, Redis and WebSockets) and a multi-tenant SaaS forecasting platform with row-level security and invite-based billing.

Stack: Python · TypeScript · React · Next.js · Node.js · FastAPI · Django · PostgreSQL · MongoDB · Redis · n8n · GoHighLevel · Docker · AWS · Linux/VPS

AI Full-Stack Developer (contract) — PowerSmith Energy, San Diego

Jul 2026 – Present

Veteran-owned solar company — marketing site, sales-rep operations portal and affiliate platform

- Built the React 18 + Vite marketing site and an async **FastAPI + MongoDB** API on Railway behind a **Rep / Team / Admin operations portal** (15 screens), with separate bcrypt + JWT token scopes for internal reps and external affiliates.
- Referral & affiliate program**: partner self-signup, per-partner links and live dashboards, and a referral pipeline mirrored into GoHighLevel via webhooks; bot-protected lead capture with Cloudflare Turnstile.
- Commission engine**: server-side import of rep commission workbooks (openpyxl), payouts derived from pipeline stage on configurable bands, and server-generated PDF commission statements (ReportLab) so reps and the office hold the same document.
- Live org chart with recruitment lines; training, SOPs and brand assets; digital business cards with QR codes and programmatic SEO pages generated at build time.
- AI content tooling on the **Anthropic SDK** (structured outputs) for blog generation and social artwork; media on Cloudflare R2, email via Resend.

Stack: React · Vite · Tailwind CSS · FastAPI · MongoDB (Motor) · PyJWT · Anthropic · Cloudflare R2 · Resend · GoHighLevel · Vercel · Railway

Sole Developer & Architect — OnOffDeals (onoffdeals.ai)

2025 – Present

Real-estate deal-sourcing & analysis SaaS — built solo, ~20K LOC, live with paying-plan billing

- Frontend**: React 18 SPA on Vite 6 and React Router 6 with role-gated app routes, a hand-built Tailwind design system with light/dark theming, a Leaflet deal map with red/yellow/green grading, and driver.js product tours.
- Backend**: fully async FastAPI + MongoDB (Motor) + Redis with Pydantic 2 — **16 API routers, 20 domain services, 311 automated tests**; Clerk + JWT (python-jose, passlib/bcrypt) with role-based access.
- Valuation & underwriting engine** built from scratch: comp selection, multi-model price and \$/sqft blending, ARV, MAO, flip profit, NOI, cap rate, cash-on-cash and DSCR, guarded by self-verifying invariant tests after catching a silent wrong-but-plausible failure on thin comp sets.
- Live Stripe billing**: subscriptions, trials, coupons, a webhook-driven state machine and per-plan usage metering with overage; versioned market caching and batched prefetching keep third-party data spend viable under rate limits.
- Anthropic Claude** as an in-app deal coach with prompt guardrails, structured output validation and adversarial red-teaming; SEO prerendering (meta/OG, JSON-LD), PDF/Excel exports and DocuSign on Vercel + Railway.

Python IT & Automation Engineer (contract) — Axiom Realty Solutions LLC, Chicago

Aug 2025 – Present

- Built the data layer behind the business: ETL ingestion, transformation and scheduled reporting across property-data sources (Zillow API, Apify, Selenium automation), CRM dashboards and Google Sheets, cutting recurring manual work by **~70%**.

- Integrated a dozen external REST APIs with retry, backoff and fault-tolerant fallbacks; administer GoHighLevel, Google Workspace, Linux/VPS, DNS and Google Cloud APIs; built WordPress sites with SEO structuring.
- Software Engineer (contract) — Podiam AI** Dec 2025 – Feb 2026
- Joined an existing Django / Next.js production codebase to fix it: split a "single" broken feature into three independent defects (ORM query chain, serializer mismatch, unexpected response shape) and fixed each with its own test; traced LangChain provider metadata leaking into customer-facing documents to the persistence boundary.
 - Replaced a local LaTeX dependency with a serverless compile pipeline with multi-API fallback; collapsed PDF, DOCX and Markdown export into one reusable React component over a TypeScript integration layer.
- Stack:** Django · PostgreSQL · Redis · Celery · Next.js · TypeScript · LangChain · AWS S3
- Paid Media, Social & CRM Manager — BrightLane Property · SharpEdge Property · USA Roofing Supply** 2024 – Present
- Meta and Google Ads for real-estate lead generation with GA4, GTM and Meta Pixel tracking; ad traffic wired into GoHighLevel (webhooks, A2P 10DLC, chat widget) for closed-loop attribution; content and community for each brand.
- Software Development Intern — Trinzz · AI Intern — Infosys Springboard** Oct 2024 – Dec 2025
- AI DICOM medical-imaging pipelines; real-time facial recognition (DeepFace, OpenCV) at 95%+ accuracy; React performance work cutting load times ~15%; hybrid-DNN recommender (TensorFlow/Keras) at 87% accuracy.
- Freelance Engineer — Upwork & direct clients** Jan 2024 – Present
- 11 jobs, 80+ hours, 100% Job Success:** Python automation, scraping and data extraction, ML preprocessing and GPT tooling, including an Excel Prompt Maker for non-technical users; business-process automation and reporting with OpenAI for BeGig.

PRODUCTS

- Gurukin — gurukin.app** Creator & sole developer
- Free, ad-free learning platform with openly licensed, AI-drafted and human-reviewed content: **Claude Certified Developer – Foundations prep** (758 practice questions, fresh 53-item mocks, six chapters / ~33 hours weighted to the blueprint), a 100-day **JLPT N5 Japanese** roadmap (105 kanji, 819 words, 131 grammar points) with no-account local progress, and a child-safe kids' track in development.
- Earlier builds:** LegalEase AI (MindsDB, Gemini, Flask, Docker) · CareerAgent AI job assistant · PDF2CSV-AI bank-statement extraction · Practo doctor scraper — github.com/sharmachaitanya945

TECHNICAL SKILLS

Languages	Python, TypeScript / JavaScript, SQL, C++, Bash, HTML / CSS
AI & LLM	Anthropic Claude, Claude API, Claude Code, OpenAI, agent development, tool calling, MCP server development, context engineering, structured outputs, evals & debugging, RAG, LangChain, prompt engineering & guardrails, Retell AI voice agents
Backend	FastAPI, Django, Flask, Node.js, Celery, Pydantic 2, async Python, REST APIs & webhooks, WebSockets, JWT / OAuth, pytest (invariant & property-style tests)
Frontend	React 18, TypeScript / JavaScript, Next.js, Vite, React Router, Tailwind CSS, design systems, Leaflet, SEO prerendering
Data & Infra	MongoDB, PostgreSQL, Redis, TimescaleDB, Supabase, Airtable, Docker, Linux / VPS, AWS S3 & Cloudflare R2 (boto3), Google Cloud, Vercel, Railway, Netlify, Git / GitHub, CI/CD
Automation & CRM	n8n, GoHighLevel, Make, Zapier, Twilio, Selenium, Apify, ETL pipelines, A2P 10DLC, Google Workspace APIs
Billing & APIs	Stripe (subscriptions, metering, webhooks), Clerk, DocuSign, Resend, Zillow API, HUD & Census data
Growth	Meta & Google Ads, GA4, Google Tag Manager, Meta Pixel, technical SEO, JSON-LD, Open Graph, WordPress
ML	TensorFlow, Keras, PyTorch, scikit-learn, OpenCV, DeepFace, Pandas, NumPy, deep learning, recommender systems

CERTIFICATIONS

Claude Certified Developer – Foundations — Anthropic · scored 896 / 1000 (pass mark 720) · valid to Sep 2027 · verify on Credly	Sep 2026
Machine Learning Specialization — Stanford University	Jul 2024
Generative AI & LLMs — Google	May 2024
AI Fundamentals — ID AIF0026070H14534	Feb 2024
Supervised ML: Regression & Classification — Coursera	Jan 2024
EF SET English — C2 Proficient (73/100)	Jun 2025
Responsive Web Design — freeCodeCamp	Jul 2023

EDUCATION & RECOGNITION

B.Tech, Artificial Intelligence & Machine Learning — Guru Gobind Singh Indraprastha University, Delhi · CGPA 9.42 / 10	2023 – 2027
1st Place — ISRO Bharatiya Antariksh Hackathon 2025 — #1 of 8,744+ teams; honoured at Bharat Mandapam by the ISRO Chairman and the Union MoS, Dept. of Space	2025
Hackathon Mentor — Codeveda (AI/ML track): technical and architecture reviews for teams	2024 – 2025