Tanish Shah

AI Engineer | Agents, Automation & Go-to-Market | I build AI products and the engines that sell them
tanishamitshah@gmail.com | linkedin.com/in/tanish-shah23 | github.com/RedPillCoder1

Engineer with a founder's bias. At 20, I run a live AI sales and growth stack for a global fintech-education company (voice agents, LLM email, AI content), owned from build to audit to cost.

Experience

AI Intern, Marketing Automation & Growth Jul 2026 – Present
QuantInsti Quantitative Learning Pvt. Ltd., Mumbai *Make, LeadSquared CRM, OpenAI, Retell AI, Twilio, Vobiz, Claude Code*

- **AI email engine, live on real leads:** built a two-stage LLM pipeline (strategist → writer) that writes one persona-targeted nurture email per CRM lead webhook, at ∼$0.33 per email. Ships through audit-driven releases; designed its core rule that a lead's personal data steers the message but never appears in it.
- **AI voice outbound:** own Retell AI calling agents on Twilio and Vobiz telephony. Added social-engineering guardrails to 28 live agent prompts, fixed a silent failure in the 24h call-frequency guard, built timezone-aware regional routing and a callback scheduler, and expanded calling coverage from 9 to 59 countries. Built a daily call-funnel report.
- **Content engine:** produce AI short-form reels through a code pipeline (Playwright + ffmpeg + AI voice). **"The Desk" reached 2,300 views in under 48h against a 555-view account median**, the account's best reel and now its reference format, designed from a 44-reel baseline and a 25-account study. Also run an AI-assisted X replies programme and WhatsApp bulk campaigns.
- **Cost & reliability:** when the org hit its 300k-credit automation cap, attributed spend per module and ranked the savings; built a gate that stops malformed LLM output from reaching the CRM; flagged security issues in live automation configs.

Backend Automation Engineer Intern (sole technical hire) Jun 2025 – Sep 2025
AMAFHH Import and Export Pvt. Ltd., Mumbai *FastAPI, Windows Server, Tally, Google Sheets*

- Owned architecture, build and deployment of a production backend (HTTPS, IP allowlisting, HMAC-SHA256 request auth).
- Built a voucher pipeline (Google Sheets → FastAPI → XML → Tally) handling godown logic, conditional GST rules and ±1% broker tolerance, eliminating fulfilment errors on real transaction volume.
- Brought back in Oct 2026 to build a multi-user delivery-challan web app (per-user login, GST calculation, print preview, challan history).

Projects

Autonomous Venture Lab – autonomousventurelab.vercel.app FastAPI, Next.js, LLM Agents, Monte Carlo

- Built and deployed an AI startup-investment analyst: a 4-agent LLM team (CEO, CFO, CMO, Critic) with schema-enforced JSON handoffs debates each venture, then 10,000 Monte Carlo simulations per request across 4 exit scenarios return a probabilistic verdict in under a second.

InferenceLens Python, PyTorch, FastAPI, WebSocket, MPS

- Open-source GPU-layer profiler for self-hosted LLMs, covering the gap between LangSmith and NVIDIA Nsight: neither shows per-layer GPU attribution.
- Found 33% p50→p99 latency jitter on Apple unified memory vs. 7.7% for Llama 3.1 8B on dedicated VRAM (n=1,000) despite a 64× larger model; located 4× layer-level attention bottlenecks.

Agentic Futures Trading Engine & **4-Agent Software Team** Groq, CrewAI, OpenAI Agents SDK, Docker

- Turns natural-language trade intent into Binance Futures orders via Llama 3.1 8B, with a zero-trust validation layer that blocks hallucinated parameters before any network call: zero invalid exchange requests in paper-trading tests. Separately built PM, Developer, Tester and Reviewer agents that turn a feature spec into tested, reviewed code.

Education

D J Sanghvi College of Engineering, B.E. Computer Engineering, Minor in Data Science **CGPA 9.11 / 10** | Jun 2027
NPTEL Top 1% nationally, Python for Data Science

Skills

AI & Agents: LLM pipelines, prompt engineering, multi-agent systems, guardrails, OpenAI Agents SDK, CrewAI, RAG
Voice & Telephony: Retell AI, Twilio, Vobiz, ElevenLabs, HeyGen
Automation & GTM: Make, Zapier, LeadSquared CRM, webhooks, WhatsApp, outbound email, short-form video
Engineering: Python, JavaScript, SQL, FastAPI, Node.js, Next.js, PyTorch, Docker, Git; Claude Code daily