

# NAGENDRA CHAUDHARY

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## SUMMARY

High-agency builder who ships at the AI frontier. Founding member at two seed-stage startups, where I built agentic Claude pipelines, RAG systems, and AI voice agents used by thousands. I orchestrate fleets of agents, automate my own workflows weekly, and turn ideas into shipped products fast. I cannot stop building. TCU CS & Mathematics, May 2026.

## EXPERIENCE

### Fasterflow, AI Engineer and Founding Member

Fort Worth, TX | Aug 2024 – May 2026

- Architected production agentic Claude API pipelines on AWS Lambda, deploying frontier models reliably at scale: 3,000 users and \$300K in seed funding
- Ran 12+ empirical RAG experimentation cycles (chunking, retrieval, reranking, prompts), improving LLM accuracy 35% on financial document Q&A benchmarks
- Live in Cursor and Claude Code daily, constantly finding new ways to ship faster and sharing them with the team

### Vaccinity, Software Engineer and Founding Member

Fort Worth, TX | Aug 2023 – Jan 2025

- Built a full-stack HealthTech AI platform (FastAPI + React) from zero, serving 5,000+ users across 4 research centers, contributing to \$230K pre-seed raise
- Shipped a real-time AI voice agent (LiveKit + Twilio + OpenAI) that autonomously ran patient outreach calls end-to-end, replacing a fully manual process
- Owned everything on a tiny team: data models, HIPAA-compliant AWS infra, prompt engineering, and production incident response

### Brazos Safety Systems, Software Engineer

Fort Worth, TX | Aug 2025 – May 2026

- Built production REST APIs aggregating 8 external aviation data feeds at 20K+ req/day with 99%+ uptime via async endpoints, retry/backoff, and health checks
- Diagnosed a production bottleneck by reading query plans and refactoring the data layer, cutting p95 latency 94% (800ms to 50ms) with Redis TTL caching

### TCU NextGen AI Lab, AI Research Assistant

Fort Worth, TX | Jan 2025 – Present

- Built Ultralearn, an AI platform that turns a single prompt into on-demand 3Blue1Brown-quality educational videos using the Manim animation engine, with fully automated visual and audio generation
- Solved the audio-visual sync problem with a novel multi-layer architecture: script, TTS audio, STT timestamp extraction, a visual planner that schedules element transitions, automated Manim code generation, and render-and-merge — published at AAAI 2026

## PROJECTS

### CRM Agentic OS - AI Workflow Automation

In Progress

Python, Claude Code, MCP Servers, LangChain, Playwright, FastAPI

- Building a fleet of agents (Orchestrator, CRM Operator, Email Agent) that turn a natural-language request into autonomous CRM execution with a full audit log, guarded by a code-level Policy Gate, prompt-injection defense, and human-in-the-loop approval — non-technical users drive real workflows just by describing them

### SpaceMedAI - Wearable Healthcare Alert System

HackMIT 2025 Semi-Finalist

JavaScript, Node.js, Twilio, Whisper API

- Shipped a real-time healthcare AI system in 24 hours that streams audio from Mentra smart glasses to AI for instant medical triage, with Twilio alert routing cutting manual handling 50%; reached Semi-Finals with a working demo

### AudioComics - Multimodal Vision-to-Speech Pipeline

Murf AI Prize Winner

Python, FastAPI, OpenAI Vision, JavaScript

- Led a team of 4 and won the Murf AI Prize for an end-to-end pipeline that converts comic PDFs into voiced audio: OpenAI Vision extracts panels and per-character dialogue, then TTS synthesis assigns distinct voices across 50+ voices and 10+ languages

## LEADERSHIP

### Resident Assistant, TCU Housing

Fort Worth, TX | Jan 2024 – Present

- Led a community of 400 students; built programming and resolved conflicts across diverse backgrounds

### Executive Board Member, TCU CS Society

Fort Worth, TX | Dec 2023 – Present

- Planned 20+ events and mentored 100+ students in programming and career development

## HONORS & AWARDS

- HackMIT 2025 Semi-Finalist (SpaceMedAI) | Murf AI Prize Winner (AudioComics) | AAAI 2026 Published Researcher (Ultralearn) | ai4ed.cc/workshops/aaai2026

## TECHNICAL SKILLS

**Languages:** Python, JavaScript, TypeScript, Java, SQL, C/C++

**AI & Agents:** Claude Code, Cursor, Claude API, MCP Servers, LangChain, RAG, LLM Evals, Pinecone, Prompt Engineering

**Web:** React, Next.js, FastAPI, Django, Node.js, Vue.js, REST APIs

**Infrastructure:** AWS Lambda, Docker, PostgreSQL, Redis, Kafka, Git/GitHub

## EDUCATION

### Texas Christian University

B.S. Computer Science & Mathematics

Fort Worth, TX

May 2026