

Hector Chavez

AI & Systems Engineer · Infrastructure Automation · Enterprise IT Leadership

Houston, TX · 281-906-2190 · hector@asuramaya.com

github.com/asuramaya · linkedin.com/in/hector-chavez-291765237

SUMMARY

What I build alone is normally a whole team's output. Three years running vendors, contractors, and direct reports as IT Lead for a **\$3 billion** construction holding company taught me how to direct a team. Now I point that same instinct at a fleet of 20 AI agents running in parallel.

SKILLS

AI & ML: Real-time multi-model inference (ASR, speaker diarization, audio/vision classification) under tight GPU budgets, multi-agent LLM orchestration, MCP (Model Context Protocol) server development, LLM tool integration (Claude / Codex)

Systems & Infra: Linux, systemd, eBPF, Docker, Cloudflare Workers, Cloudflare R2

Languages & Frameworks: Rust, TypeScript, Python, React, async services (Tokio / Axum), SVG

Identity & Security: Microsoft Entra ID, Active Directory, Intune (MDM), Microsoft Purview, Microsoft Defender, Cisco DUO (MFA / SSO), Abnormal Security (email security), Netskope SD-WAN

Infrastructure & Endpoints: Windows, macOS, Microsoft 365 administration, Cisco Meraki, Veeam (backup / DR), Citrix, Parallels

Automation & DevOps: PowerShell, Bash, PostgreSQL, GitHub Actions (CI/CD)

Collaboration & Service Desk: Mitel, RingCentral, Zendesk

INFRASTRUCTURE & OPERATIONS EXPERIENCE

Stewart Holdings Group

Houston, TX · 2023 – 2026

IT Lead

IT and infrastructure function for a construction holding company managing **\$3B+ in active real estate development** across 7 operating subsidiaries (Stewart Builders, Keystone Concrete, Keyscape, Stewart Development, Ludlow & Associates) and 3 offices.

- Owned **identity, security, endpoint management, networking, and vendor relationships** across **1,000+ endpoints** for all seven companies; served as primary technical liaison to executives.
- Migrated legacy infrastructure to modern cloud identity and security on **Microsoft Entra, Intune, and Defender**, landing each rollout in three to six months.
- Built a PowerShell and Python automation suite that ran user and data lifecycle management end-to-end and auto-triaged most of a **~20-ticket/day** queue across a multi-entity IT function.
- Wrote monitoring scripts to surface visibility gaps across the device fleet.
- Integrated data analytics into accounting and bidding workflows.

David Weekley Homes

Houston, TX · 2021 – 2023

IT Support

Endpoint support and configuration for a national homebuilder operating ~90 offices across roughly 20 U.S. states.

- Provided endpoint support and device configuration across a distributed national footprint.
- Supported **Windows, Microsoft 365, and Zendesk** ticketing for a high-volume user base.

Harris County Public Health

Houston, TX · 2020 – 2021

Pandemic Operations Tech Support

Frontline technology support for COVID-19 vaccination sites operated by Harris County, the third-largest county in the United States.

- Kept check-in, registration, and data ingestion systems running through peak surge conditions.
- Supported high-volume public operations under sustained time pressure.

INDEPENDENT ENGINEERING

Selected work. Full portfolio at github.com/asuramaya.

- **mudra / sutra** (Jul 2026): shared infrastructure for a family of Linux system daemons. *sutra* is the runtime vendored byte-identical into each one; *mudra* signs and seals releases across the family via SSH+FIDO2, without holding key material.
- **monsterhouse** (Jun 2026): real-time livestream clip generator, platform-agnostic by design. One focal pipeline follows the hottest stream while cheap monitors watch the rest and trigger focus swaps; eight ML models sharing one 8GB GPU, shipped as a small SaaS.
- **rotten-apple** (Jun 2026): Rust Xen hypervisor turning a bare-metal machine into a hypervisor host, running macOS and Windows as first-class guests today. End goal: meshing multiple physical machines under one Xen control plane, in one open toolkit.
- **handlingtheloop** (Jun 2026): serverless browser DJ app mixing public YouTube tracks, rekordbox/DDJ-FLX style. Reverse-engineered a DJ controller's undocumented MIDI protocol, then tracked down and fixed a hosting-provider IP block that was silently dropping the app's own YouTube fetches.
- **osiris** (May 2026): keyless, provenance-first entity-graph engine, an event-sourced Postgres ledger where every fact records how it was obtained. Two faces: cross-project memory for a fleet of 20+ AI coding sessions, and OSINT entity intelligence pulling from anything on the public record.
- **hector-vector** (May 2026): a free, browser-based SVG editor at hector-vector.com; the desktop app adds an AI raster-to-vector pipeline and offline fonts.