

David Gomez

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SUMMARY

Builder who ships working AI systems end to end. Designed, built, and operates a self-hosted agent platform on a five-node Linux fleet: an MCP server exposing 21 typed tools, quota-aware model routing across three cloud providers plus a local open-weight model on owned GPU hardware, tiered retrieval over a private corpus, and an evidence contract requiring verifiable output before a job is accepted. 12+ years across IT support, hardware lifecycle, and inventory and logistics operations; current work is high-volume enterprise hardware configuration under production SLAs. AAS in Cloud Computing. Seeking applied AI engineering roles building agents, tool calling, retrieval, and the guardrails around them.

CORE COMPETENCIES

LLM application development; agent orchestration and tool calling (Model Context Protocol); retrieval-augmented generation and semantic search; model routing and cost control; local open-weight inference; guardrails, evaluation gates, and observability; Python back-end and API design; SQLite and schema design; Linux administration; Docker and systemd services; DNS, DHCP, TCP/IP, subnetting, NAT; identity and access control; CI/CD and release discipline; technical documentation and audit trails; incident triage and root cause analysis.

TECHNICAL PROJECTS

Tower - Agent Orchestration Platform

github.com/davidisdeploying/tower

- **MCP server** exposing 21 typed tools that turn a five-node Linux fleet into a pool of AI workers, consumable by any Model Context Protocol client without a second API to maintain.
- **Quota-aware model routing:** scores three cloud providers on live usage and reserves the winner atomically in one transaction, or routes fully-specified work to a local open-weight model at zero marginal cost.
- **Concurrency by resource, not host:** mutating jobs declare what they touch and serialize on that claim, so unrelated work runs in parallel while multi-host jobs stay protected.
- **Evidence contract:** single-use tokens, immutable request and durable response per run, and independent verification, because a zero exit code means the process ended, not that the work happened. Python, FastMCP, SQLite; 308 tests.

Nexus - Agent Observability & Knowledge Base

github.com/davidisdeploying/nexus

- Operator surface for the platform: live node health, running and completed agent jobs with the evidence each returned, and Web Push alerting on failure.
- **Tiered retrieval** over a private corpus: compact summary cards first, a separate vector index over normalized working history second, raw sources only for audit, so lookups stay cheap before they go deep. Python, FastAPI, vanilla JS.

Loupe - Self-Hosted ML Photo Culling

loupeculling.com

- Full-stack Python/SQLite web application with its own machine-learning pipeline: face clustering, scene and aesthetic scoring across ~80k frames, running on owned GPU hardware via ONNX.
- Network-aware access control and a commit-before-deploy release discipline via systemd.

Self-Hosted Linux Fleet, Multi-Node Infrastructure

Ongoing

- Designed and operate a five-node fleet (Ubuntu, Synology NAS, Raspberry Pi) across two subnets including a dedicated storage subnet behind a NAT gateway; administer ~11 TB RAID5 storage.
- Docker and systemd services with a high-availability failover design published through Cloudflare Tunnels and Access; failover validated under a real control-plane outage.

WORK EXPERIENCE

Future Tech Enterprise, Inc.

Sep. 2025 - Present

Configuration Technician

Plano, TX

- Global IT solutions partner specializing in high-volume PCaaS configuration, logistics, and lifecycle management for Fortune 500 and government clients.
- **Hardware Install & Configuration:** install, configure, and maintain enterprise endpoint hardware at volume, covering imaging, driver configuration, and provisioning against per-client build specifications.
- **Firmware & Platform Security:** configure BIOS/UEFI settings, TPM enablement, Secure Boot, and firmware asset tag values, applied both manually and programmatically.
- **Deployment & Decommission:** execute the full hardware lifecycle from receiving through decommission and liquidation, including secure data sanitization and disposition of retired assets.
- **Quality Assurance & Failure Triage:** white glove inspection, functional testing, DOA identification, and root cause analysis prior to release, working to production SLAs.
- **Asset Management & Documentation:** scan and log serial and service tags into the ERP/inventory system, keeping physical inventory in agreement with system records.

FedEx Express

Oct. 2023 - Sep. 2025

Courier

Sherman, TX

- Sustained physically demanding, time-bound work; daily vehicle and safety inspections with defects reported through required documentation channels.
- Planned and adjusted routes to hold delivery commitments while reducing time and fuel cost.

Uber

Aug. 2020 - Sep. 2023

Driver

Dallas-Fort Worth Metroplex, TX

- Provided safe, reliable transportation with high customer-satisfaction ratings; developed communication and problem-solving skills through constant client interaction.

Jet Specialty Inc.

Aug. 2012 - Jun. 2020

IT Specialist / Inventory Control Manager

Odessa, TX

- Owned inventory control for a high-volume parts and equipment operation at an industrial supply company serving the oil and gas industry.
- Ran regular audits, identified discrepancies between physical stock and system records, and developed corrective actions; used data analytics to forecast needs and reduce excess stock.
- Executed IT support tasks across hardware and software systems to maintain operational efficiency.

EDUCATION

Collin College

Graduated May 2026

Associate of Applied Science (AAS), Cloud Computing, Infrastructure

McKinney, TX

- Networking coursework aligned to CompTIA Network+ objectives; Linux installation and configuration; cloud networking and storage; databases; security; scripting with Python; containerization and orchestration (Docker, Kubernetes).

CERTIFICATIONS, SKILLS & TECHNOLOGIES

- **Certifications:** Cloud Infrastructure Technician (Collin College); HP Commercial & Consumer Desktops, Workstations & Notebooks Service Qualification (SQ24-PC); CS50P: Introduction to Programming with Python (Harvard/edX); Claude 101 (Anthropic).
- **AI & Machine Learning:** Model Context Protocol (MCP); LLM tool calling; agent orchestration; retrieval-augmented generation; semantic search and embeddings; model routing and quota management; guardrails and evaluation gates; context design; local inference (Ollama); ONNX; Claude Code; Codex.
- **Engineering:** Python; FastAPI; SQLite; Bash; Git; CI/CD; REST and tool APIs; systemd; Docker; Podman; Linux (Ubuntu); DNS; DHCP; TCP/IP; Subnetting; NAT; Tailscale; Cloudflare (Tunnels, Access, Pages); OAuth/JWT.
- **Endpoint & Platform:** Windows 10/11; Windows Server; Active Directory; Microsoft Intune; Windows Autopilot; SCCM/MDT; PXE Boot; BIOS/UEFI; TPM; Secure Boot; VMware/Hyper-V.