James Huffman

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SUMMARY

Engineer who builds agentic systems and the automation his team runs every day. For 2+ years I have used generative AI, prompt engineering, and AI-assisted development to ship working software: a 15-agent AI platform on self-hosted Linux infrastructure and Python and JavaScript tools in production at a fiber ISP. I validate what I build against security and compliance requirements and document it so others can run it. Prior federal experience as an IRS Tax Compliance Specialist.

TECHNICAL SKILLS

- **Languages:** Python, Go, Lua, JavaScript, Bash, PowerShell
- **Agentic AI and AI-assisted delivery:** multi-agent design, MCP servers (FastMCP), RAG with ChromaDB, prompt and output-contract design, Claude and OpenAI APIs, prompt engineering, AI-assisted development
- **Backend and data:** REST APIs, webhooks, HTTP listeners, MongoDB, browser extensions, web scraping and data extraction
- **Infrastructure and DevOps:** Docker and Docker Compose, Linux (Ubuntu, Debian), Proxmox, GPU passthrough and NVIDIA Container Toolkit, Nginx, Cloudflare Tunnels, Tailscale, SSO with Authentik
- **Tools:** Git and GitHub (fork and pull-request workflow), VS Code, Portainer, SecureCRT scripting
- **Delivery and quality:** requirements and acceptance criteria, runbooks and technical documentation, security and compliance validation (SSO, session controls, incident response), root-cause debugging

SOFTWARE PROJECTS

Odin: Multi-Agent AI Platform · BeanLab Tech LLC (co-founder) · 2025 to present

- Designed and built a platform of 15 specialized AI agents on LibreChat, covering IT operations, business automation, and telephony workflows.
- Wrote custom Model Context Protocol servers in Python (FastMCP) with MongoDB persistence, giving agents reliable access to internal tools and data.
- Created a structured prompt architecture (standing rules, tool references, failure-recovery paths, output contracts) that makes agent output predictable and testable.
- Wrote orchestrator specs with phase gates and evidence-based completion checks after a multi-agent run returned incomplete work, so agents must prove a task is done before it ships.
- Validated the platform against client security and compliance requirements (SSO, session timeouts, incident response roles, HIPAA BAA scope) and wrote the compliance documentation.
- Self-hosted the full stack with Docker Compose on Ubuntu with GPU passthrough (RTX 4060 Ti, Tesla V100 32GB): ChromaDB vector search, SearXNG, Whisper speech-to-text, Piper text-to-speech, and ComfyUI.

SMX Scraper · Vero Networks internal tool

- Built a Chrome extension paired with a Python HTTP listener that pulls data from internal web systems and turns multi-step equipment provisioning and troubleshooting into one click.
- Adopted by the support team as part of its daily workflow.

Dark Magic (open source game) · github.com/n0rthstar88/dark-magic

- Maintain a downstream fork of an open source game written in Go and Lua, and contribute features and fixes back upstream through pull requests.

HuffLabs: Self-Hosted Infrastructure · 2023 to present

- Run a two-node Proxmox cluster with TrueNAS ZFS storage and 30+ containerized services behind Nginx, Cloudflare Tunnels, and Authentik single sign-on.
- Wrote systemd services for network-storage mount recovery, ordered service boot sequencing, and set up SNMP monitoring with LibreNMS.
- Debug production-style outages end to end: DNS forwarding, TLS certificates, firewall rules, container registry auth.

PROFESSIONAL EXPERIENCE

Technical Support Lead · Vero Networks (fiber ISP) · Remote · Jan 2026 to present

- Write and maintain Python automation (SecureCRT scripting) for Calix OLT/ONT management, replacing manual CLI work with repeatable diagnostics the whole team runs.
- Built the SMX Scraper toolchain (above) to automate data pulls from internal systems.
- Analyze speed-test and device data in spreadsheets for grant reporting and network projects.
- Primary escalation point across Engineering, Network Operations, and Field Services; write the runbooks and escalation templates the team uses.

Co-Founder and Chief Strategy Officer · BeanLab Tech LLC · Remote · 2025 to present

- Lead technical architecture for Odin, the company's multi-agent AI platform, and its client deployments.
- Wrote security and compliance documentation for client engagements, including session handling, SSO, and incident response roles.

Tier 2 Technician · Vero Networks · Remote · 2022 to Dec 2025

- Troubleshot fiber provisioning, Calix, Juniper, and Ubiquiti issues for residential and business accounts.
- Spotted repetitive manual workflows and proposed automation, which led to promotion to Technical Support Lead.
- Wrote knowledge-base articles and onboarding material for new technicians.

Tax Compliance Specialist · Internal Revenue Service (federal government) · Fresno, CA · Oct 2019 to Jul 2020

- Reviewed returns and financial records against federal tax code, documented discrepancies, and initiated corrective action.
- Worked within strict federal security, privacy, and records-handling requirements.

Earlier roles

- Technical Training Mentor, Alorica, Fresno, CA · Nov 2018 to Oct 2019
- Wireless Carrier Consultant, Walmart, Dinuba, CA · May 2011 to Dec 2018

EDUCATION

B.S. **Cybersecurity** · Southern New Hampshire University · Aug 2021 to May 2023

- GPA 3.8; Dean's List two consecutive terms