

Johnathan W. Carroll

IT Infrastructure & AI Systems Leader

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Driving AI-enabled infrastructure transformations that cut costs & boost resilience

Professional Summary

Seasoned technology leader with 20+ years designing, deploying, and securing enterprise-class infrastructure for government and private-sector organizations. Proven track record leading \$3M+ data-center refreshes, consolidating six OEM platforms into three core systems, and integrating cutting-edge AI & security stacks (Docker-based Open-WebUI, Ollama, ComfyUI, DarkTrace, Microsoft Sentinel/Defender, etc.). Recently eliminated 6 legacy racks, trimmed annual infrastructure OPEX by \$250K, and boosted compute & storage performance while shrinking physical footprint 50% and delivering 10x security resilience at the Pascua Yaqui Tribe. Ready to help a forward-thinking Tucson organization scale securely, cost-effectively, and AI-first.

Core Competencies

- **Infrastructure Modernization** - Nutanix AHV (Acropolis), VMware, Hyper-V, Cisco UCS, Pure Storage
- **AI & Machine Learning Engineering** - Local LLM hosting, NVIDIA GPU optimization, multi-agent workflows
- **Cloud & Hybrid Services** - Microsoft Azure IaaS/PaaS, Office 365, Azure AD, Exchange Online
- **Cybersecurity & SIEM** - Microsoft Defender, Microsoft Sentinel, Darktrace, Zero-Trust
- **Automation & DevOps** - Docker & Compose, GitHub Actions, CI/CD, Python, Bash, PowerShell
- **Team Leadership & Project Management** - Leading cross-functional teams, \$1M+ cap-ex projects

Professional Experience

IT Infrastructure Manager - Pascua Yaqui Tribe Government, Tucson AZ

Aug 2023 - Present

- Directed a nine-person Infrastructure & SecOps team supporting police, fire, health, HR, and finance departments across Tucson & Guadalupe.
- Led enterprise-wide infrastructure refresh, consolidating from six OEM platforms and four support vendors down to three core systems (Nutanix AHV, Cisco UCS, Pure Storage).
- Implemented Microsoft Defender suite across endpoints, servers, and Azure workloads and stood up Microsoft Sentinel SIEM, delivering 10x increase in threat-detection resilience.
- Built an on-prem AI research lab leveraging RTX 4090 GPUs, Dockerized LLM services, and local SearXNG metasearch, enabling secure internal AI pilots while maintaining data sovereignty.

Senior System Administrator - Pascua Yaqui Tribe Government, Tucson AZ

Jan 2021 - Aug 2023

- Administered multi-site AHV, Hyper-V & VMware clusters, 250+ virtual servers, and hybrid Office 365 tenant.
- Led migration of 100+ TB file shares to Pure Storage & Cloudian S3 tiered solution for resilient, air-gapped backups.

Education & Professional Development

- **Computer Programming & Digital Repair Certificate** - Norfolk Technical Vocational Center, VA
- Continuous learning via Coursera, Pluralsight, and vendor bootcamps (Pure Storage, Cisco UCS, Microsoft Azure, Nutanix Academy).