
Christopher Miller

IT & Infrastructure

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SUMMARY

IT and infrastructure professional with 3+ years running enterprise networks, Microsoft 365 environments and the systems a business depends on. Sole on-site IT lead across multiple Texas locations. Alongside that I have built around two dozen internal tools — a document management system replacing a paid product, a lightning alerting system wired to the site alarms, a search tool for our equipment manuals — most of which are still in daily use. I build those working with AI tools rather than writing the code by hand, which I am happy to talk through.

EXPERIENCE

McCourt Equipment | May 2025 – Present · La Grange, TX

IT Coordinator

- Sole on-site IT lead across multiple Texas locations; own infrastructure, security systems, endpoints, and business applications end to end.
- Deployed and manage Ubiquiti UniFi infrastructure — UDM, switching, access points, Protect and Access — including VLAN segmentation, site-to-site VPN, firewall policy and wireless design.
- Led migration of 60+ cameras from a legacy NVR platform to UniFi Protect; deployed Starlink for remote and emergency site connectivity.
- Administer Microsoft 365 and Entra ID: user lifecycle, SharePoint architecture and intranet, Power Automate workflows, and unattended Microsoft Graph integrations.
- Built a search tool over the equipment manual library so technicians get answers showing the exact manual page each one came from, including the diagrams. Runs on an internal Linux server.
- Built an application that automates a nine-step engineering calculation used in sales, reads the customer's plant design file, and produces finished reports for three different audiences.
- Built a document management system to replace a paid product — documents arrive four different ways through one checked entry point, scanned ones are read automatically, and the record of changes cannot be altered.
- Built a lightning detection system that triggers the site alarms so crews get off the equipment, running continuously on a Linux server and verified in real conditions.
- Built gate control for the yard that drives the relay hardware directly, checks the relay actually fired before reporting success, and monitors the solar supply powering it.
- Implemented Freshdesk for ticketing and asset tracking with custom dashboards; deployed UKG timeclock kiosks across nine locations.
- Automated monthly fleet reporting from our GPS tracking — usage, time spent at the yard, fault codes and safety events, as per-vehicle PDF reports.

Brenham ISD | Jan 2022 – Apr 2023 · Brenham, TX

Computer Technician

- Sole technician supporting four elementary campuses — approximately 1,900 students and 160 staff.
- Managed a ~2,000-device Chromebook rollout including enrollment, cart wiring and lifecycle management.
- Administered Active Directory and Google Workspace; managed users, devices and email.
- Built and maintained imaging with PDQ Deploy and Lite Touch; documented processes in a team knowledge base.
- Supported the Promethean ActivPanel rollout and delivered ongoing teacher training.

SELECTED PROJECTS

Longer write-ups at millerteck.com. All built with AI assistance.

Dead Reckoning Python · FastAPI · Postgres · OpenAI · Linux

Technicians ask a question about a machine and get an answer showing the exact manual page it came from, with that page on screen. Diagrams are read and described during setup so they can be searched too. Built to say the manual does not cover something rather than guess.

VaultLine TypeScript · Postgres · Docker · OCR · Linux

Replacement for a paid document system. Documents arrive four different ways and all go through one checked entry point; scanned ones are read automatically and the details pulled out for a person to confirm. The record of who did what cannot be edited or deleted.

AggFlow Reader Python · PDF parsing · Report generation · Desktop app

Reads a customer's plant design file, runs the screen sizing calculations that previously had to be done by hand, suggests the right screen media, and produces reports for engineering, sales and the customer. Five versions driven by user feedback.

Lightning Detection & Safety Alerting Python · Weather API · UniFi Protect · Linux

Watches for lightning near the yard and sets off the site alarm so people get off the equipment, then sounds an all-clear once it has been quiet for half an hour. Runs continuously and has gone off for real.

Service Call Archive TypeScript · Postgres · 3CX · OpenAI

Pulls service call recordings and transcripts into a database each night, works out what each call was about and whether it got resolved, tracks whether promised callbacks actually happened, and emails managers a weekly summary.

RFQ Response Tracker Node.js · Microsoft Graph · Linux

Measures how quickly we respond to customer quote requests, counted in working hours rather than clock hours. Reads six mailboxes automatically and works out which email threads are quote requests.

TECHNICAL SKILLS

Networking Ubiquiti UniFi (UDM, switching, AP, Protect, Access) · VLANs · VPN and site-to-site · firewall policy · L2/L3 routing · wireless design · network monitoring · Starlink WAN

Infrastructure Microsoft 365 · Active Directory · Entra ID · Windows Server · Group Policy · DNS · DHCP · Linux · systemd · nginx · Docker · virtualization · backup and disaster recovery

Languages Python · TypeScript / JavaScript · Node.js · SQL · PowerShell · Bash · FastAPI · Fastify · Flask · Express

Data PostgreSQL · SQLite · database design · search indexing · reporting · Power BI

AI & automation Building tools with AI assistance · document search and retrieval · OCR · reading and classifying scanned documents · designing and checking AI output

Integration Microsoft Graph · SharePoint · Power Automate · Freshdesk · Samsara · 3CX · UniFi APIs · Modbus · REST APIs and webhooks

Tools Git · VS Code · Postman · PyInstaller · PDQ Deploy · hardware diagnostics · imaging and asset lifecycle

CERTIFICATIONS

CompTIA A+ · CompTIA Network+ (N10-009) · Ubiquiti Full Stack Professional (UFSP) · CompTIA Security+ (SY0-701), in progress · Cisco CCNA, planned

EDUCATION

Sam Houston State University — General Studies, not completed | Huntsville, TX · 2010

Magnolia High School — High School Diploma | Magnolia, TX · 2008

ADDITIONAL

US citizen · Texas Class C driver's license · clear background check · comfortable with regular travel between sites