James “Roy” Dawson IV

AI & Systems Architect

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SUMMARY

AI and systems architect with more than 15 years in enterprise infrastructure, secure operations, automation and software engineering. CTO and co-founder of Prodistry, founder of Glass Providence LLC and a U.S. Air Force veteran. Designs agentic AI systems and Model Context Protocol (MCP) servers, along with the controls around them: human approval queues, validation gates and telemetry. Builds cross-platform Rust applications and has trained teams on AI, agentic and MCP tooling.

EXPERIENCE

CTO & Co-Founder

Prodistry | Aug 2026 – Present

- Architect and build Prodistry, a local-first product intelligence platform now in pre-release. It runs on Cloudflare Workers, Neon PostgreSQL and AWS Bedrock, with a tenant-scoped Streamable HTTP MCP server and OAuth-verified tenant context.
- Designed human-in-the-loop controls so that agent and MCP proposals go through an approval queue and cannot change workspace data directly.
- Hardened the application with a nonce-based Content Security Policy, dependency remediation, audit gates and authentication safeguards.
- Added database-enforced tenant registration controls and Playwright regression tests in CI, with Claude Code and Codex guidance for engineering handoff.

Founder & CEO

Glass Providence LLC | Utah | Jul 2026 – Present

- Founded and run a single-member studio for software, games and consulting work.
- Shipped three games: Pondlets (Android, iOS), Nomos (Android, iOS, desktop) and Providence Jigsaw (Windows, Android, iOS), built with Godot, Rust and Bevy.
- Manage store publishing, release engineering and distribution.

Software Engineer & AI Educator

Independent | Utah | Apr 2025 – Jul 2026

- Published open-source tools, from Python packages such as Ollama Toolkit and LLM Telemetry Toolkit to desktop apps such as Switch SD Manager and Portfolio Sidekick.
- Designed and built more than 10 websites for small businesses, creators and independent professionals.
- Trained solopreneurs and small groups to use AI, websites and automation.

Systems Engineer, Telephony (via TEKsystems)

The Church of Jesus Christ of Latter-day Saints | Riverton, UT | Aug 2024 – Apr 2025

- Secured and modernized the PHP platform on the servers behind global temple telephony, migrating legacy PHP 7 applications to PHP 8.3+ for all temples.
- Ran server and patch management for the global temple fleet and provided Tier 3 support for escalated issues.
- Modernized the global Cisco IP phone platform with migration and rollout automation, and fixed long-standing SOAP and service-menu blockers.
- Trained the AI department and several other departments on AI, agentic workflows and MCP tooling.

Systems Architect & Integration Consultant

Rise Informatics | Remote | Jul 2023 – Jun 2024

- Built a secure pipeline for more than 1,900 pages of patient forum data, using Hugging Face Transformers and Qdrant for sentiment analysis, medication tracking and symptom pattern recognition.
- Built vector database and NLP-assisted review pipelines that cut manual analysis time by roughly 80%, and created dashboards for real-time quality and throughput.

Senior Systems Administrator / Infrastructure Lead

TEKsystems (project-based contracts) | Remote & On-Site | 2016 – 2025

- Led infrastructure deployments for Marriott and Wells Fargo and supported Nvidia DGX-class compute initiatives.
- Carried out VMware ESXi and Hyper-V migrations and automated patching for banking and hospitality compliance.
- Served as TEKsystems team lead on a Dell and Moog project (Mar to Apr 2023) and completed Marriott (Sep to Oct 2022) and Vail Resorts (Sep to Oct 2025) engagements.
- Other clients included Blue Cross Blue Shield and Performance Matters. Engagements were intermittent; the Church and Nicholas & Co. are listed separately.

Cyber Systems Integrations Engineer

Nicholas & Co. (TEKsystems contract, then direct hire Jan 2019) | Salt Lake City, UT | Oct 2018 – Aug 2021

- Wrote PowerShell automation for SQL clusters, Hyper-V and user provisioning that cut ticket volume about 40%.
- Supported an AX Dynamics CRM migration from on-premises infrastructure to AWS using automation.
- Patched about 1,000 servers and built redundant Rubrik and Tegile IntelliFlash storage for disaster recovery.

Cyber Systems Operations Administrator

U.S. Air Force | Global | May 2009 – May 2014

- Managed WSUS patching for more than 4,500 clients at full compliance and implemented Hyper-V environments with VBS-based automation in security-sensitive operations.

Earlier roles: Microsoft, Security Automation Specialist (2014); Dell, Lead Installation Technician (2015); Apex LLC, Technical Consultant (2015).

SELECTED WORK

Full list: imyourboyroy.com/software and github.com/imyourboyroy.

Agentic AI and MCP

- **Agent Continuity Stack**: Shared rules, skills and memory for Codex, Cursor, Claude Code and Antigravity.
- **Ollama Toolkit**: Python toolkit for agents on local models (Ollama, LiteLLM) with typed clients, tools and MCP.
- **LLM Telemetry Toolkit**: Async logging of prompts, tool calls and latency with PII masking and OpenTelemetry export.
- **Ready for Us**: Private guided reflections with a public read-only MCP server and a consent-based OAuth 2.1 MCP.

Desktop applications

- **Genomics Caddy**: Local DNA explorer (Rust, Tauri) with ClinVar, GWAS, ClinPGx lookups and an MCP server.
- **PeriWire**: USB-over-IP in Rust with mutual TLS pairing, a CLI, a desktop app and an MCP server.
- **Enchi**: Python version manager in Rust with a CLI, a desktop app and an MCP server, formerly pyenv-native.

Developer tooling

- **WCAGate**: Accessibility gate for CI and coding agents running WCAG 2.2 AA checks with Playwright and axe-core.
- **Web Scraper Toolkit**: Turns web pages into Markdown, JSON or PDF as a command, Python library or MCP server.

SKILLS

- **AI & Agents:** LLM integration, agentic workflows, MCP servers, RAG, tool calling, context engineering, human-in-the-loop controls, AI observability, Ollama, AWS Bedrock, self-hosted GPU inference
- **Languages:** Rust, Python, TypeScript, JavaScript, PowerShell, Bash, PHP
- **Applications:** Tauri, Bevy, Godot, Astro, Playwright, axe-core, CI/CD
- **Cloud & Infrastructure:** Cloudflare Workers, AWS, Neon PostgreSQL, RHEL/Ubuntu, Windows Server, Active Directory, Group Policy, VMware, Hyper-V, WSUS
- **Security:** OAuth 2.1, Content Security Policy, mTLS, multi-tenancy, dependency auditing, Zero Trust, HIPAA, PII protection

CERTIFICATIONS

CompTIA Network+, CompTIA Security+

Former, no longer active: Microsoft SCCM certification (legacy); DoD 8570.01 IAT Level 2; DoD Top Secret and Secret clearances (expired).