

## Data & AI Systems Advisor

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Twenty-five years building systems that work, from emergency dispatch infrastructure serving 1.4 million people to global data warehouses at Amazon to production agentic AI shipped independently. I evaluate the full stack: not just what the data says, but why the business is getting the results it's getting. I design the solution, give senior leadership the full picture, make sure we're building to solve the right problem, then ship it.

### WHAT I BRING

- I build and ship production AI systems (multi-agent orchestration, RAG pipelines, and MCP infrastructure) and use them daily to develop software faster.
- I know what AI can and can't do. I keep pushing the limits to learn what does and doesn't work, and know when to use it and when to work around it.
- I have built both data infrastructure and AI systems. I know where they work together and where legacy data breaks modern AI.
- I solve the hard problems. Identify root cause, make the case for the most effective solution, and make it happen.

<b>25+ yrs</b> INDUSTRY EXPERIENCE	<b>5</b> AWS REGIONS BUILT	<b>200+</b> AWS TEAMS ENGAGED	<b>97+</b> PRODUCTION AI TOOLS BUILT
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### CORE SKILLS

#### AI & AGENTIC SYSTEMS

Multi-Agent Orchestration  
 RAG Pipelines / pgvector  
 MCP Server Development  
 LLM APIs — Claude · OpenAI · Gemini  
 FastAPI + Async Python  
 Agentic Memory Systems

#### DATA ENGINEERING

ETL / Data Pipelines (10+ yrs)  
 SQL — 20+ years  
 Redshift · PostgreSQL · MS SQL  
 Data Warehouse Architecture  
 Data Lake Architecture  
 BI / Tableau / QuickSight

#### CLOUD & INFRASTRUCTURE

AWS — S3 · IAM · Redshift · Glue  
 Region Builds (Commercial & Secured)  
 Docker · Self-Hosted AI Infra  
 HIPAA · SOC 2 · Data Governance

#### LEADERSHIP & DELIVERY

Cross-Org Program Management  
 Director / VP-Level Stakeholders  
 Launch Readiness & Risk Assessment  
 Budget Management (\$900K+)

#### LANGUAGES & TOOLS

Python · TypeScript · React 19  
 PowerShell · SQL · Hono  
 Git · Docker · DataGrip

### EDUCATION

### PROFESSIONAL EXPERIENCE

#### Amazon Web Services (AWS)

Arlington, VA · 2020 – 2026

##### Technical Program Manager II — Cloud Governance

Aug 2023 – Apr 2026

- Led two concurrent cross-AWS regulatory alignment programs. Analyzed data to prioritize engagement across **200+ service teams**, built tracking and reporting infrastructure, and drove both to completion in under 8 months.
- Edited ticket templates in code (CRs submitted), updated root cause definitions, and presented a root cause simplification that reduced operational overhead.
- Provided requirements for AI-assisted ticket resolution automation; monitored AI-generated responses and delivered direct engineer feedback to improve quality.
- Aligned two core AWS engineering teams to a secured region launch timeline outside their primary scope; made the case for roadmap adjustments, secured principal engineer commitments, and ensured government sponsor review submissions cleared without delay.
- Built escalation and approval frameworks for AWS-wide programs; handed off standards and infrastructure so the team could run them independently.

##### Systems Engineer II — AWS Service Catalog

Dec 2021 – Aug 2023

- Led software region builds across **5 AWS regions** (CGK, ZRH, ZAZ, MEL, and HYD), all on time, **zero post-launch errors**.
- Developed build model graph methodology adopted by the team for every subsequent region launch.
- Inherited a delayed data reporting project; reset the timeline, delivered on schedule, and handed off ownership to engineering.

##### Technical Program Manager II — Region Expansion

May 2020 – Dec 2021

- Delivered independent launch readiness assessment for 20+ teams; findings were adopted directly by senior leadership.
- Led AWS-wide initiative adapting data handling practices across 200+ services to meet evolving regulatory requirements; developed access gating solution adopted by 37 service teams.
- Designed centralized data collection workflow, replacing fragmented tracking across teams with a single, privacy-compliant reporting source.

## B.S. Business Administration

Operations & Supply Chain Mgmt  
Central Washington University  
1992–1994, 2003–2005

*IT Specialist (work study), HopeSource, Ellensburg, WA (Sept 2003–Aug 2005): wired LAN for new building, replaced client intake system with custom MS Access solution with version control, managed network and Active Directory.*

## CITIZENSHIP

U.S. Citizen · Clearance Eligible

## Amazon.com

Seattle, WA · 2015 – 2020

### Legal Data Engineer II

Feb 2019 – May 2020

- Board of Directors quarterly report: **20 hrs/quarter of manual work → fully automated → zero ongoing effort.**
- Migrated critical legal data pipeline from Oracle to Redshift; simplified multi-step process to a single operation.

### Business Intelligence Engineer II → I

Feb 2015 – Feb 2019

- Architected Redshift cluster and data warehouse for Amazon Global IT reporting; **cut report development time 50%**, eliminated daily manual cycles.
- SME for all Amazon Global IT data definitions; owned SLA, service level, and ticket metrics reporting.

## Lyon Technical Services

Renton, WA · 2007 – 2015

### Senior Network Administrator / Acting IT Director

2007 – 2015

- Managed **\$900K+ annual IT budget**, consistently under budget; cut server capital costs **\$50K/year** through virtualization.
- Rebuilt failing network infrastructure in a live clinical environment; zero unscheduled downtime, HIPAA compliant throughout.

*Earlier: **Materials Supervisor**, Auburn Regional Medical Center (Sept 2005–2007) — procurement and supply chain in a clinical environment. · **Data Systems Analyst**, American Medical Response (1999–2003) — SQL DBA and reporting for emergency dispatch infrastructure serving 1.4M people across 4 counties; 99.9% uptime on mission-critical systems.*

## INDEPENDENT AI PROJECTS — 2024–PRESENT

### Multi-Agent Orchestration Framework

Built a SQL-specialized agent to close LLM coverage gaps: identified lazy SQL patterns, fixed them, and gave the framework reliable SQL generation it didn't have. Refactored the MCP workflow engine with security-first tooling: PostgreSQL with PL/SQL enabled, direct C disabled to prevent code injection.

### MCP Server Platform

97-tool production server (Python/FastAPI, JSON-RPC 2.0) with persistent semantic memory via pgvector and multi-provider LLM routing across Claude, OpenAI, Gemini, and Ollama. AI that remembers context and acts across tools.

### Property Data ETL Pipeline

Config-driven pipeline covering 33 states and 116 ArcGIS endpoints, enriched with federal data from BLS, FRED, HUD, and Census ACS demographics.

### No-Code ETL Engine

Business managers define data transformation workflows without writing code. React 19, TypeScript, Hono, and PostgreSQL. Working MVP in under 2 months. 3,707 passing tests. AES-256-GCM encryption at rest.