

DAVID R. RINTOUL, CISSP

AI Solutions Architect

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PROFESSIONAL SUMMARY

AI Solutions Architect (CISSP) building self-hosted agentic AI and RAG systems with a safety-critical operator's discipline. A decade as Operations & Safety Director — zero-incident record across thousands of commercial dives — now applied to AI: local inference, validated sources, required citations, and operational risk managed by design rather than after the fact. Twenty-plus years across enterprise architecture, cybersecurity, data governance, and product development.

PROFESSIONAL EXPERIENCE

AI, DATA & GOVERNANCE

Founder | AI Platform Architect — Voyages By Dave (voyagesbydave.ca) | 2024–Present

- Designed, built, and operate a self-hosted agentic AI platform used by Voyages By Dave for travel research and trip planning, connecting 20+ MCP tools to curated data sources (github.com/drintoul/voyages-by-dave).
- Designed the platform around local LLM inference, RAG, source validation, required citations, and limited tool access, keeping sensitive data on private infrastructure.
- Reduced complex research tasks from 2–3 hours to under 10 minutes (>90%) by building reusable agentic workflows for research and trip planning.

Independent Consultant | 2021–2023

- **Charles Schwab | 2023**
Built a Python XML audit tool used by database administrators to trace Tableau calculated fields to underlying database columns across hundreds of unversioned workbooks, allowing schema changes without breaking dependent dashboards.
- **Evernorth Health Services (Cigna) | 2022**
Rebuilt multi-gigabyte Neo4j ingestion pipelines as modular Python workflows with transactional rollback, increasing reliability from ~65% to 99.9% and eliminating manual intervention after failed overnight jobs.
- **The Walt Disney Company | 2021**
Built an AWS-hosted pipeline that correlated internal vulnerability scan results with external threat intelligence while meeting strict data-retention requirements, improving remediation prioritization and saving 10+ hours of manual work per month.

Business Intelligence Analyst / Developer — WellCare / Centene | 2019–2021

- Built an ML model predicting member non-renewal with 94% accuracy; targeted outreach to flagged members drove a 30% increase in retention despite limited resources.
- Mapped members to their nearest medical facility using government website APIs during the pre-vaccine phase of COVID, enabling targeted outreach directing members to the closest source of credible information.
- Reclaimed 24% of underused software licences by tying access to demonstrated proficiency and business need; created the supporting training and worked with Corporate Training to roll it out enterprise-wide.

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SAFETY-CRITICAL OPERATIONS & REGULATED ENVIRONMENTS

Operations & Safety Director — Diving & Hyperbaric Medicine | 2009–2018

- Directed commercial-diving compliance, risk management, and operations for hundreds of staff and volunteer divers completing thousands of exhibit, research, and occupational dives across three public aquariums, maintaining a zero diving-accident record throughout my tenure while also supporting two clinical hyperbaric wound-care programs.
- Replaced monolithic diver training with modular, competency-based qualifications, reducing time to productivity from approximately 8 months to 3 months while allowing divers to progress to more advanced duties as skills were demonstrated.

PRODUCT, PROGRAM & ALLIANCE LEADERSHIP

Microsoft — Senior Program Manager, 2006–2008 | Senior Product Manager, 1999–2003

- Worked across engineering, licensing, legal, and telecommunications partners to create custom OEM agreements that enabled specialized embedded products while excluding unneeded Microsoft platform capabilities.
- Contributed \$5 million in annual incremental revenue by restructuring the division's partner program to concentrate engineering and field investment on strategic partners while maintaining broader ecosystem coverage through scalable programs.

Siemens — Alliance Director, 2004–2006 | Senior Product Manager, 1995–1999

- Drove \$3M in incremental Microsoft software revenue by equipping Siemens sales teams worldwide to position Siemens solutions as Microsoft revenue drivers, securing stronger Microsoft field support.
- Cut R&D costs 66% and improved time to market by consolidating three enterprise telephony platforms into one while preserving required customer functionality.

EDUCATION & CREDENTIALS

B.A.Sc., Computer Engineering — University of Waterloo

Credentials Earned: CISSP; CDMP; CAIP; Salesforce Certified Tableau Data Analyst; Alteryx Advanced Designer

Professional Education: Digital Transformation (MIT); Business Analytics (Wharton); Data Science (IBM); EU AI Act & GDPR (DataCamp)

Engineering: Previously licensed Professional Engineer, Ontario

TECHNOLOGY EXPERTISE

AI & Applications: Python; LangGraph; MCP; FastMCP; RAG; FastAPI; Ollama; REST APIs; n8n

Data & Analytics: Qdrant; Neo4j; MongoDB; MySQL; SQLAlchemy; Tableau; Alteryx; Dataiku; data lineage; vector search

Infrastructure & DevOps: Docker; Linux; AWS; GitHub Actions; CI/CD; Cloudflare Tunnels