DAVID R. RINTOUL, CISSP

AI Solutions Architect

Abbotsford, British Columbia, Canada | drintoul@gmail.com | (236) 258-8728 | linkedin.com/in/david-rintoul

---

PROFESSIONAL SUMMARY

AI Solutions Architect who combines hands-on experience building and operating a secure, self-hosted AI platform with a proven record in commercial products, enterprise data systems, governance, and safety-critical operations. Applies practical AI implementation skills and enterprise experience to turn promising ideas into secure, useful solutions without overlooking privacy, data governance, or operational risk.

Customer Discovery | AI Solution Design & Implementation | Data Governance | Security & Operational Risk | Product and Program Leadership

PROFESSIONAL EXPERIENCE

AI, DATA & GOVERNANCE

Founder | AI Platform Architect

Voyages By Dave | 2024–Present

- Designed, built, and operate a secure, self-hosted agentic AI platform connecting 20+ Model Context Protocol (MCP) tools to curated, authoritative sources, producing citation-backed research that is more transparent and auditable than general-purpose chatbot responses.
- Use Ollama for local inference, keeping sensitive prompts and personal data on privately controlled infrastructure while reducing hallucination risk through curated sources, permissioned tools, source validation, and required citations.
- Reduced research time by more than 90%—from 2 to 3 hours to under 10 minutes—using reusable agentic workflows built with LangGraph, FastMCP, FastAPI, Qdrant, MongoDB, and GitHub Actions.

Independent Consultant | 2021–2023

Charles Schwab | 2023 — Enabled engineers to refactor database schemas without breaking dependent Tableau dashboards by developing a Python XML audit tool that traced Tableau calculated fields to underlying database columns across hundreds of unversioned workbooks.

Evernorth Health Services (Cigna) | 2022 — Helped recover a stalled vendor evaluation by rebuilding multi-gigabyte Neo4j ingestion pipelines as modular Python workflows with transactional rollback, increasing reliability from approximately 65% to 99.9% and eliminating frequent manual intervention.

The Walt Disney Company | 2021 — Improved vulnerability remediation prioritization while meeting strict data-retention requirements by building an AWS-hosted historical pipeline and automating correlation between internal scan results and external threat intelligence, saving more than 10 hours of manual work per month.

DAVID R. RINTOUL, CISSP

Business Intelligence Analyst / Business Intelligence Developer

WellCare Health Plans / Centene Technologies | 2019–2021

- Reclaimed 24% of underused software licences by tying licence allocation to demonstrated proficiency and business need; authored the supporting Adobe Articulate training and worked with Corporate Training to add it to the enterprise software catalog.

OPERATIONS, SAFETY & 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 3 public aquariums, achieving a zero-diving-accident record throughout my tenure while also supporting 2 clinical hyperbaric wound-care programs.
- Replaced monolithic diver training with modular, competency-based qualifications that allowed new divers to begin cleaning shifts before progressing to feeding and advanced husbandry, reducing time to productivity from approximately 8 months to 3 months during a typical volunteer tenure of just over one year.

PRODUCT, PROGRAM & ALLIANCE LEADERSHIP

Microsoft

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

- Enabled telecommunications manufacturers to commercialize specialized embedded products by working across partner engineering, Microsoft licensing, and both companies' legal teams to create custom OEM agreements, including contractual restrictions on unneeded Microsoft platform capabilities.
- Contributed $5 million in annual incremental revenue by restructuring the division's partner program around a depth-and-breadth model—concentrating engineering and field investment on strategic partners that committed sales and support resources, while maintaining broader ecosystem coverage through scalable programs.

Siemens

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

- Equipped Siemens sales teams worldwide to gain stronger Microsoft field support by articulating how Siemens solutions could drive incremental Microsoft software revenue.
- Reduced R&D costs by 66% and improved time to market by consolidating three separate enterprise telephony platforms—built on OS/2, UNIX, and Windows—into a single platform while preserving required customer functionality.

DAVID R. RINTOUL, CISSP

EDUCATION & CREDENTIALS

- **B.A.Sc., Computer Engineering** — University of Waterloo
- **Professional Education:** Digital Transformation (MIT); Business Analytics (Wharton); Data Science (IBM); EU AI Act and GDPR (DataCamp)
- **Selected Credentials Earned — current and previously held:** Certified Information Systems Security Professional (CISSP); AWS Certified AI Practitioner; Certified Data Management Professional (CDMP); Certified Artificial Intelligence Practitioner (CAIP); AWS Certified Cloud Practitioner; Salesforce Certified Tableau Data Analyst; Alteryx Advanced Designer; Certified Scrum Product Owner (CSPO); Six Sigma Green Belt
- **Engineering Licensure:** Previously licensed as a Professional Engineer in Ontario

TECHNOLOGY EXPERTISE

- **AI & Application Development:** Python; JupyterLab; LangGraph; Model Context Protocol (MCP); FastMCP; Retrieval-Augmented Generation (RAG); FastAPI; Flask; Streamlit; Ollama; REST APIs; n8n
- **Data & Analytics:** Qdrant; Neo4j; MongoDB; MySQL; SQLAlchemy; Tableau; Alteryx; Dataiku DSS; data lineage; vector search
- **Cloud, Infrastructure & DevOps:** Docker; Linux; Amazon Web Services (AWS); Git; GitHub Actions; continuous integration and continuous delivery (CI/CD); Cloudflare Tunnels; self-hosted and hybrid systems