

Keith Steward, Ph.D.

AI Consulting Principal | Head of AI | AI Transformation Executive

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EXECUTIVE PROFILE

AI, data, cloud, and enterprise transformation leader with 25+ years building production AI/ML, analytics, SaaS, and enterprise software platforms. Combines executive advisory, AI strategy, Generative AI, agentic workflow, intelligent automation, data strategy, governance, and hands-on AI engineering credibility. Founded an AI company, created a production GenAI assistant platform for 70+ automations across 20+ workflows, directed engineering teams up to 11 members, and advised 200+ AWS enterprise customers. Helps enterprises convert ambiguous AI opportunity into pragmatic transformation roadmaps, operating models, adoption programs, and measurable business outcomes.

Career Note: Following four years at AWS, I accepted three successive executive leadership opportunities to build new AI, Data Analytics, and governance capabilities in organizations undergoing significant transformation. In 2023 I founded *Intelligent DataWorks* inc. to commercialize an enterprise GenAI + Business Data platform, and I am now seeking a long-term executive leadership opportunity following a planned strategic transition of that business.

EXECUTIVE LEADERSHIP & CORE EXPERTISE

Executive leader combining AI consulting, enterprise transformation, C-suite advisory, AI strategy, product/platform leadership, organization building, responsible AI, and hands-on production delivery.

Executive Advisory: C-suite and SVP advisory, AI strategy, opportunity assessments, use-case prioritization, transformation roadmaps, executive presentations, stakeholder alignment.

Engagement Leadership: client-facing delivery, consulting, solution architecture, multi-disciplinary collaboration, operating models, adoption planning, business-value narratives, ambiguous problem solving.

AI Transformation: Generative AI, agentic workflows, intelligent automation, AI engineering, data strategy, governance, responsible AI, MLOps, model transparency, enterprise AI platforms.

Practice and Team Growth: recruiting, mentoring, internal capability building, technical communities, enablement programs, reusable playbooks, thought leadership, team accountability.

SELECTED CAREER HIGHLIGHTS

- Founded and directed an AI startup and 11-engineer AI organization.
- Created *AssistX*, a production GenAI assistant platform for 70+ automations across 20+ HR workflows.
- Supported AI and analytics adoption across 200+ AWS enterprise customers as a senior AI/ML and Big Data specialist.
- Created AWS AI/ML technical communities and trained 180+ global solution architects.
- Delivered TriMark's first AWS data lake, reducing cross-ERP reporting from roughly 2 months to 1 day.
- Technically directed Data Privacy and AI Governance cloud engineering at MassMutual.
- Implemented commercial AI and bioinformatics products including the globally adopted Ingenuity Pathway Analysis platform.
- Delivered 36 formal AI/ML presentations and earned AWS ML Elite Gold and Platinum recognition.

PROFESSIONAL EXPERIENCE

Technical Co-Founder & CEO | *Intelligent DataWorks inc* | 2023 to Present

Founded an applied AI SaaS company to commercialize an enterprise GenAI + business data platform. Owns AI strategy, product vision, platform architecture, engineering execution, workflow design, governance narrative, customer validation, and strategic transition planning.

- Architected *AssistX*, a production-grade generative AI assistant platform using LLMs, AI agents, RAG, PostgreSQL/PGVector, LangChain, LangGraph, APIs, workflow orchestration, and AWS cloud services.
- Created reusable AI platform foundations for agentic workflows, intelligent automation, RAG grounding, vector search, evaluation loops, observability, human-in-the-loop quality, and production adoption.
- Produced 70+ AI automations across 20+ HR and business workflows, improving selected workflows by up to 50x versus manual execution.
- Directed an 11-engineer Agile AI development team while staying hands-on in AI strategy, platform architecture, cloud engineering, backend systems, AI orchestration, and product execution.
- Delivered the initial production release within 8 months and converted emerging LLM capability into a durable SaaS platform.
- Established AI transformation narratives, operating-model concepts, roadmap sequencing, stakeholder alignment, adoption plans, customer discovery, and executive demonstrations for enterprise workflows.
- Applied Python, PostgreSQL/PGVector, FastAPI, AWS, LLM APIs, RAG, agentic workflows, responsible AI concepts, and evaluation practices to production AI workflows.
- Initiated strategic acquisition discussions with HR technology companies regarding IDW's AI platform, with plans to pursue a future senior AI leadership opportunity with another company.

Sr. Engineering Director, Workforce Management Service | *SuccessKPI* | 2022 to 2023

Directed engineering, architecture, and delivery for the Workforce Management component of an AI-powered contact-center analytics SaaS platform. Converted product requirements into cloud architecture, forecasting algorithms, optimization workflows, integrations, and release plans.

- Recruited and directed a 7-member distributed engineering team building AWS-based forecasting, scheduling, visualization, and automated communication capabilities.
- Designed AI-driven forecasting, optimization, workflow automation, API integration, analytics, and product delivery patterns for enterprise SaaS and customer-facing operations.
- Delivered the first working WFM release within 6 months for two flagship enterprise customers and advocated early generative AI adoption across the platform.

Sr. Director, Data Analytics & Operations | *TriMark USA* | 2021 to 2022

Recruited to build the company's first enterprise data lake initiative across 11 ERP systems and establish enterprise analytics capability. Partnered with marketing, supply chain, finance, and executive stakeholders to prioritize analytics use cases and KPI delivery.

- Secured support for an AWS data lake strategy enabling data engineering, analytics, governance, and future machine learning capabilities across a \$1B+ enterprise.
- Delivered TriMark's first AWS data lake within 7 months, automating nightly ingest, cataloging, consolidation, and normalization across 11 ERPs.
- Improved cross-ERP reporting cycles from roughly 2 months of manual work to 1 day, a 60x improvement in insight delivery.

Technical Lead for Cloud, Data Privacy and AI Governance | *MassMutual* | 2020 to 2021

Established AWS architecture and hands-on implementation for Data and AI Governance capabilities, including privacy rights management, enterprise data catalog, adaptive policy framework, governance APIs, and AI governance initiatives.

- (System was completed in 14 months).
- Coordinated cross-functional product managers, enterprise architecture, privacy governance, AI governance, security stakeholders, site reliability, and developers to convert secure requirements into production cloud delivery.
- Provided MLOps guidance for model transparency, bias, drift detection, auditability, monitoring, and lifecycle management using Amazon SageMaker.
- Delivered a first cloud-native privacy rights platform in 8 months, automating roughly 90% of a formerly manual workflow.

VP of Machine Learning & AI | NorthBay Solutions | 2019 to 2020

Recruited out of AWS by the NorthBay Solutions CEO to head up a new AI/ML practice for enterprise customers and AWS-based product acceleration. Combined customer advisory, hands-on engineering, solution architecture, and executive delivery.

- (COVID triggered company-wide layoffs including my role)
- Recruited out of AWS by the NorthBay Solutions CEO to head up a new AI / ML practice for enterprise customers and AWS-based product acceleration.
- Generated CEO approval for an AWS Data Lake + ML Accelerator SaaS initiative, built the initial working system hands-on, and directed remote engineering toward customer demonstrations.
- Delivered AI/ML and analytics solutions for Dun & Bradstreet, Harvard Business School, Invesco, and other enterprise customers.

Sr. Specialist Solutions Architect AI/ML, Big Data & Analytics | Amazon Web Services | 2015 to 2018

Served as an AWS senior specialist across AI/ML, Big Data, analytics, data lakes, machine learning, and enterprise cloud adoption. Advised senior customer stakeholders and enabled AWS field teams with technical strategy, architecture, demos, and training.

- Created and grew AWS internal AI/ML and analytics technical communities, enabling 180+ global solution architects and producing 170+ technical assets.
- Advised 200+ enterprise customers on AI strategy, ML, enterprise transformation, data lakes, analytics architecture, governance, SageMaker, TensorFlow, Glue, Athena, S3, Lambda, and production adoption patterns.
- Presented 50+ formal AI/ML and analytics sessions and earned AWS ML Elite Gold and Platinum recognition.

PATENTS / PUBLICATIONS / SPEAKING

- United States Patent No. US 8,793,073.
- United States Patent No. US 8,489,334.
- BioWizard Intelligent Agent Architecture patent application (1998) for genomic knowledge discovery.
- Delivered 36 formal presentations on Machine Learning, Deep Learning, and Artificial Intelligence at large AWS and non-AWS/industry events.
- AWS ML Elite Gold and AWS ML Elite Platinum awards.
- AWS re:Invent Rockstar and AWS Certification SME recognition.

EDUCATION

- Ph.D., Molecular Biology / Microbiology & Immunology, University of Western Ontario, Canada.
- Canadian Medical Research Council Post-Doctoral Research Fellowship.

TECHNOLOGIES

AI strategy • AI transformation • Enterprise AI strategy • Executive advisory
AI-enabled business transformation • Generative AI • Agentic AI • agentic workflows
Intelligent automation • AI operating models • AI governance • Responsible AI
AI productization • AI platform ownership • AI engineering • Machine learning
Applied AI • MLOps • LLMOps • model evaluation • model governance • model explainability
model transparency • bias detection • drift detection • Data strategy • data governance
data lakes • data engineering • analytics • cloud architecture • AWS • Amazon SageMaker
AWS Bedrock • AWS Glue • AWS Athena • AWS S3 • AWS Lambda • AWS Step Functions
API Gateway • Kubernetes • Docker • Python • PostgreSQL/PGVector • LangChain