

Keith Steward, Ph.D.

AI Transformation Executive | Enterprise Architecture Leader

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[LinkedIn](#) | IntelligentDataWorks.ai | [IDW LinkedIn](#)

PROFILE

AI transformation and enterprise architecture executive who connects strategy, operating models, governance, cloud platforms, and hands-on delivery. Built an 11-engineer organization and a production platform supporting 70+ AI automations across more than 20 workflows, while previously developing global AWS communities totaling 180+ specialists. Led data and systems consolidation across 11 acquired businesses and reduced cross-ERP reporting from roughly two months to one day. Brings the technical depth and executive judgment to scale responsible AI adoption, modernize complex portfolios, and translate architecture into measurable business outcomes.

SELECTED QUALIFICATIONS

- **Enterprise AI Transformation:** strategy, use-case portfolios, adoption, value realization, operating models, literacy, and change enablement
- **Enterprise Architecture:** roadmaps, standards, applications, data, integrations, cloud infrastructure, security, reliability, and governance
- **Agentic & Generative AI:** LLMs, RAG, agents, orchestration, evaluation, observability, MLOps, APIs, and intelligent automation
- **Executive & Organization Leadership:** engineering and product direction, hiring, budgets, managers, vendors, cross-functional influence, and delivery

PROFESSIONAL EXPERIENCE

Technical Co-Founder & CEO | Intelligent DataWorks | Boston, MA | Aug 2023 to Present

Lead AI product strategy, architecture, engineering execution, and operations while remaining hands-on in platform development.

- Architected and helped build AssistX, a production AI platform combining Python, FastAPI, PostgreSQL/PGVector, LLMs, RAG, AI agents, APIs, LangChain, LangGraph, workflow orchestration, and AWS services.
- Delivered the first commercial release within eight months, supporting 70+ AI automations across more than 20 workflows and accelerating selected work by up to 50x.
- Recruited and technically led an 11-engineer Agile team while contributing directly to architecture, backend services, cloud infrastructure, orchestration, evaluation, security, and platform operations.
- Established reusable foundations for voice interaction, MCP, multi-agent workflows, controlled prompts, input validation, prompt-injection protection, vector search, human review, and observability.
- Validated the platform with hundreds of user signups at launch and estimated annual customer savings of approximately \$54,000 per organization.
- Initiated strategic acquisition discussions regarding IDW's AI platform as part of a planned transition to a senior AI/engineering leadership role.

Senior Director of Engineering | SuccessKPI | Remote | Jun 2022 to Aug 2023

Directed architecture and engineering for an AI-powered contact-center Workforce Management SaaS product.

- Recruited and led an 11-person organization including a manager, translating product priorities into architecture, forecasting, optimization, integrations, quality, and production delivery.
- Directed Agile engineering, performance reviews, bonus allocation, a \$600,000 budget, and cross-functional work spanning security, data, platform, BI, and quality engineering.
- Delivered an AI-powered workforce-management SaaS product for enterprise and government customers using AWS, Python, PostgreSQL, forecasting, and optimization.

Senior Director, Data Analytics & Operations | TriMark USA | Mansfield, MA | Aug 2021 to May 2022

Owned enterprise data modernization for a \$1B+ organization integrating 11 acquired businesses and heterogeneous ERP systems.

- Prioritized 50+ analytics use cases with Finance, Marketing, Supply Chain, and technology leaders and secured support for an AWS data strategy.
- Upskilled four analysts and grew the team to seven AWS engineers with hiring, mentoring, planning, budget, risk, and delivery accountability.

- Established nightly data ingestion, cataloging, consolidation, normalization, and global querying across 11 geographically distributed ERP environments.
- Delivered the first AWS data lake within seven months and reduced cross-ERP reporting from roughly two months to one day.

Technical Lead, Cloud Data Privacy & AI Governance | MassMutual | Boston, MA | Nov 2020 to Aug 2021

Led architecture and hands-on implementation across five enterprise Data Privacy and AI Governance initiatives.

- Converted policy and product requirements into secure cloud architecture, APIs, automated infrastructure, testing, CI/CD, and production releases.
- Delivered the first cloud-native privacy-rights platform within eight months, automating approximately 90% of a manual workflow.
- Partnered with Enterprise Architecture and SRE on IAM, serverless patterns, managed services, infrastructure automation, resilience, and cloud operating standards.
- Guided model-governance practices for evaluation, transparency, bias, drift, monitoring, auditability, lifecycle controls, security, and human oversight.

VP of AI/ML | NorthBay Solutions | Boston, MA | Jan 2019 to Nov 2020 | (Role ended in company-wide COVID layoff).

Recruited out of AWS by the NorthBay Solutions CEO to establish a new AI/ML practice and reusable production data-and-ML capability.

- Built an AWS Data Lake and ML accelerator hands-on with Python, Django, React, APIs, and AWS, then directed a 24-person remote team toward delivery.
- Delivered an AWS Neptune knowledge graph integrating complex hierarchical enterprise data and expanded reusable cloud and AI architectures for customers.
- Advised enterprise customers on AI strategy, data platforms, knowledge graphs, solution architecture, and production implementation.

Senior Specialist Solutions Architect, AI/ML & Big Data | Amazon Web Services | Boston, MA | May 2015 to Dec 2018

Advised enterprises and AWS teams on production machine learning, distributed analytics, data platforms, and cloud adoption.

- Advised 200+ enterprises on AI/ML strategy, production architecture, SageMaker, data lakes, distributed systems, security, and scalable adoption.
- Created and led global Big Data and AI/ML communities, developing 180+ specialists through standards, mentoring, workshops, and reusable assets.
- Built a SageMaker and TensorFlow forecasting hackathon for Morgan Stanley data scientists and created 170+ technical enablement assets.
- Delivered 50+ technical presentations and workshops and earned AWS ML Elite Gold and Platinum recognition.

EARLIER RELEVANT EXPERIENCE

- Led a 25-person CambridgeSoft engineering organization delivering enterprise scientific software for major pharmaceutical customers.
- Led a five-person Dimensional Photonics group that launched an FDA-cleared connected product and fault-tolerant AWS/Cassandra platform.

EDUCATION & RECOGNITION

Ph.D., Molecular Biology / Microbiology & Immunology, University of Western Ontario. AWS ML Elite Gold and Platinum; AWS re:Invent Rockstar; named inventor on multiple patents.

TECHNOLOGIES

AI transformation • enterprise architecture • agentic AI • Generative AI • LLMs • RAG • AI agents • LangChain • LangGraph • MCP • AI evaluation • AI observability • MLOps • responsible AI • AI governance • Python • FastAPI • REST APIs • microservices • distributed systems • AWS • Amazon Bedrock • SageMaker • data platforms • data lakes • Spark • EMR • PostgreSQL • PGVector • AWS Neptune • Docker • Kubernetes • CI/CD • AWS CDK • IAM • security • reliability • workflow automation