

Keith Steward, Ph.D.

Enterprise AI Executive | Production AI & Responsible Innovation

Boston, MA | 508-318-8035 | keith.steward@gmail.com

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

PROFILE

Enterprise AI executive who turns business opportunities into production AI platforms, operating roadmaps, and measurable outcomes. Combines AI strategy, cross-functional leadership, machine learning, NLP, LLMs, data platforms, cloud architecture, and responsible-AI governance with hands-on delivery depth. Built and led an 11-engineer organization that shipped a production GenAI platform within eight months, supporting 70+ automations across 20+ workflows, and advised 200+ enterprises on AI and data adoption. Brings the judgment to prioritize use cases, establish scalable standards, mentor technical leaders, and communicate AI value clearly to executives and clients.

SELECTED QUALIFICATIONS

- **AI Strategy & Portfolio:** enterprise vision, analytics roadmaps, use-case prioritization, emerging-technology evaluation, partnerships, KPIs, and executive communication
- **Production AI:** machine learning, NLP, LLMs, RAG, agents, predictive analytics, data platforms, APIs, evaluation, MLOps, and cloud architecture
- **Responsible Innovation:** data quality, privacy, security, bias, drift, transparency, auditability, lifecycle controls, human oversight, and regulatory alignment
- **Organization Leadership:** cross-functional teams, hiring, mentoring, distributed delivery, product and engineering alignment, client influence, and accountable execution

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, agents, APIs, LangChain, LangGraph, workflow orchestration, and AWS services.
- Delivered the first commercial release within eight months, supporting 70+ automations across more than 20 workflows, accelerating selected work by up to 50x, and attracting hundreds of user signups at launch.
- 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 responsible-AI foundations spanning controlled prompts, input validation, prompt-injection protection, vector search, human review, evaluation, and observability.
- 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 a seven-person distributed team delivering forecasting, optimization, scheduling, analytics, and automated communications on AWS.
- Translated product requirements into architecture, algorithms, APIs, testing, CI/CD, operations, and two-week Agile releases.
- Designed forecasting and linear-programming capabilities that converted contact-center demand and staffing constraints into operational schedules.
- Delivered the first working release within six months for two flagship enterprise customers and expanded the platform to additional large organizations.

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 organization delivering enterprise scientific software and multi-million-dollar customer programs across four countries.
- At Dimensional Photonics, led an FDA-cleared connected-health product and built its fault-tolerant AWS platform, integrations, monitoring, and analytics hands-on.

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 strategy • machine learning • NLP • LLMs • conversational AI • RAG • AI agents • predictive analytics • forecasting • optimization • TensorFlow • SageMaker • Python • FastAPI • REST APIs • AWS • data platforms • data lakes • Spark • EMR • PostgreSQL • PGVector • LangChain • LangGraph • AI evaluation • MLOps • Responsible AI • AI governance • privacy • security • auditability • bias monitoring • drift monitoring • human oversight • Docker • Kubernetes • CI/CD • observability • workflow orchestration • distributed systems