

# Keith Steward, Ph.D.

## AI & ML Engineering Executive | Enterprise AI Builder

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## PROFILE

AI and ML engineering executive who turns scattered experiments into governed operating capability, production platforms, and measurable customer value. Combines hands-on Generative AI, production ML, MLOps, forecasting, optimization, cloud architecture, and model governance with organization design, hiring, portfolio prioritization, and executive communication. Built an 11-engineer team and shipped a platform with 70+ automations across 20+ workflows; advised 200+ AWS enterprises. Brings the technical judgment to set strategy, challenge architectures and models, develop leaders, and connect AI investment to product and operational outcomes.

## SELECTED QUALIFICATIONS

- **AI Strategy & Operating Model:** roadmaps, build/buy/partner decisions, portfolio intake, prioritization, evaluation criteria, metrics, governance, and measurable outcomes
- **AI Organization Leadership:** org design, recruiting, hiring, leveling, mentoring, distributed teams, architecture reviews, model reviews, and executive communication
- **Production AI & ML:** Generative AI, LLMs, agents, RAG, predictive analytics, forecasting, optimization, MLOps, cloud platforms, and hands-on architecture
- **Responsible Business Impact:** customer value, product alignment, model governance, security, observability, auditability, human oversight, and operational reliability

## 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 an AI operating model spanning product intake, roadmap prioritization, two-week delivery cycles, architecture standards, evaluation, security, observability, and production operations.
- 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 with enterprise HR technology companies.

### 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**

- At Dimensional Photonics, led software and cloud delivery for an FDA-cleared connected 3D scanning product and built its fault-tolerant AWS/Cassandra platform with device-performance monitoring and analytics.
- At CambridgeSoft, led a 25-person distributed team delivering scientific SaaS products while coordinating product requirements, engineering, quality, and enterprise customer commitments.

## **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 • AI platform strategy • Generative AI • LLMs • AI agents • agentic workflows • applied ML • predictive analytics • forecasting • optimization • MLOps • model governance • AI evaluation • responsible AI • data science • data engineering • AWS • SageMaker • TensorFlow • Python • FastAPI • REST APIs • PostgreSQL • PGVector • LangChain • LangGraph • MCP • vector databases • workflow orchestration • Docker • Kubernetes • CI/CD • AWS CDK • cloud architecture • distributed systems • data platforms • data lakes • Spark • EMR • observability • security • human oversight