

Keith Steward, Ph.D.

Applied AI Engineering Manager | Enterprise Solution Delivery

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PROFILE

Player-coach engineering leader who turns high-value enterprise opportunities into governed AI, data, and full-stack solutions that reach production. Combines team development, portfolio prioritization, capacity planning, and Agile execution with hands-on depth in LLMs, RAG, automation, APIs, data platforms, AWS, security, and integration. Built and led an 11-engineer team delivering 70+ AI capabilities across more than 20 workflows and previously reduced cross-ERP reporting from roughly two months to one day. Brings the judgment to connect business KPIs with reusable technical delivery.

SELECTED CAREER HIGHLIGHTS

- Built and technically led an 11-engineer team delivering a reusable production AI platform with 70+ capabilities across more than 20 workflows.
- Owned enterprise use-case discovery, prioritization, architecture, staffing, delivery, release management, and operations with budgets up to \$900,000.
- Delivered TriMark's first AWS data lake in seven months after prioritizing 50+ use cases, reducing cross-ERP reporting from roughly two months to one day.
- Advised 200+ AWS enterprise customers and developed global AI/ML and data specialist communities totaling 180+ technical professionals.
- Created reusable cloud, data, and AI delivery patterns that helped technical teams move complex enterprise requirements into governed production systems.

PROFESSIONAL EXPERIENCE

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

Build and operate a reusable enterprise AI platform while leading product, engineering, staffing, delivery, and production operations.

- Recruited, trained, and technically led 11 AI and full-stack engineers through Agile sprints while remaining hands-on with architecture, coding, infrastructure, releases, and operations.
- Delivered the initial AssistX production platform within eight months using Python, FastAPI, LLMs, RAG, agents, PostgreSQL/PGVector, APIs, Docker, AWS, and CDK.
- Automated more than 20 workflows through 70+ AI capabilities, accelerating selected work by up to 50x while sustaining 99.9% availability.
- Owned customer discovery, use-case prioritization, roadmap, a \$900,000 budget, team capacity, security, evaluation, observability, and delivery standards.
- Initiated strategic acquisition discussions regarding IDW's AI platform as part of a planned transition to a senior AI/engineering leadership role.

Sr. Director of Engineering | SuccessKPI | Remote | Jun 2022 to Aug 2023

Recruited to build and lead engineering for an AI-powered workforce-management component of a cloud-native contact-center SaaS platform.

- Recruited and led an 11-person organization, including a manager, spanning software, data, platform, security, BI, and quality engineering.
- Owned Agile execution, technical priorities, performance reviews, bonus allocation, team capacity, and a \$600,000 budget.
- Delivered production forecasting, scheduling, optimization, analytics, APIs, and integrations for enterprise and government customers.

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.

- Partnered with marketing, supply chain, finance, and executives to define and prioritize more than 50 analytics use cases and KPIs.
- Delivered the first AWS enterprise data lake in seven months, integrating 11 ERPs and reducing reporting from roughly two months to one day.
- Upskilled an initial four-person analytics team and expanded it into a seven-member AWS engineering organization with additional contractors.

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.

- Led cloud architecture and engineering across five enterprise privacy and AI-governance initiatives in regulated financial services.
- Delivered a cloud-native privacy platform in eight months that automated approximately 90% of a formerly manual workflow.
- Established security, CI/CD, governance, transparency, bias, drift, and monitoring patterns with architecture and SRE partners.

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 pharmaceutical customers.
- Led cloud and software delivery for an FDA-cleared connected healthcare product and its 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/ML • LLMs • RAG • AI agents • workflow automation • Generative AI • Python • FastAPI • full-stack engineering • data platforms • data pipelines • REST APIs • system integration • distributed systems • AWS • Docker • Kubernetes • AWS CDK • infrastructure as code • PostgreSQL • PGVector • LangChain • LangGraph • MCP • AI evaluation • MLOps • data governance • Responsible AI • security • observability • CI/CD • Agile delivery • portfolio prioritization • capacity planning • team development • regulated systems • SQL • Spark • data lakes • event-driven architecture