

Keith Steward, Ph.D.

AI Platform & Engineering Executive | Hands-On Technology Builder

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PROFILE

Hands-on technology and engineering executive who turns early AI prototypes into dependable commercial platforms. Combines product architecture, backend and cloud engineering, data systems, applied AI, security, and operating discipline with direct hiring and team leadership. Built the AssistX core and first 80% of its initial application, then grew an 11-engineer team around a platform supporting 70+ automations across more than 20 workflows with 99.9% availability. Brings the judgment to sequence architecture, talent, product, and customer priorities as a company scales.

SELECTED CAREER HIGHLIGHTS

- Built a founder-led 11-engineer organization while owning technical strategy, product roadmap, architecture, security, releases, operations, and a \$900,000 budget.
- Architected and built the AssistX core platform and first 80% of its initial application, moving from concept through production within eight months.
- Delivered 70+ AI automations across more than 20 workflows, validated with 150+ early users and operated with 99.9% availability.
- Advised 200+ AWS enterprise customers on AI, data, security, and cloud architecture and developed global specialist communities totaling 180+ people.
- Delivered commercial software across enterprise SaaS, scientific computing, financial services, and FDA-cleared healthcare technology.

PROFESSIONAL EXPERIENCE

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

Build the product and company while owning technology strategy, architecture, hiring, delivery, security, and production operations.

- Architected and built the AssistX core platform and first 80% of its initial application hands-on using Python, FastAPI, LLMs, RAG, agents, PostgreSQL/PGVector, APIs, Docker, AWS, and CDK.
- Recruited and technically led 11 engineers while owning a \$900,000 budget, product priorities, architecture, releases, security, and operations.
- Delivered the initial production release within eight months and expanded it to 70+ automations across more than 20 workflows with 99.9% availability.
- Validated the platform with 150+ early users while establishing evaluation, guardrails, observability, cost controls, and customer-driven roadmap practices.
- 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

Built and led 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, architecture, operational priorities, performance reviews, bonus allocation, team capacity, and a \$600,000 budget.
- Delivered 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.

- 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 and cloud software.
- Directed an AWS/Cassandra platform for an FDA-cleared connected product, integrating device data with fault-tolerant cloud services.

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

technology strategy • engineering leadership • product architecture • roadmaps • build-versus-buy analysis • Generative AI • LLMs • AI agents • RAG • LangChain • LangGraph • MCP • Python • FastAPI • REST APIs • distributed systems • microservices • event-driven architecture • AWS • Amazon Bedrock • SageMaker • PostgreSQL • PGVector • data platforms • data pipelines • Docker • Kubernetes • AWS CDK • CI/CD • automated testing • observability • reliability • security • IAM • Responsible AI • AI governance • customer discovery • Agile delivery • Linux