

Keith Steward, Ph.D.

VP Product Management | AI Product Strategy | AI Platform & Data Executive

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EXECUTIVE PROFILE

Executive AI product, platform, data, and cloud technology leader with 25+ years creating production AI/ML, analytics, SaaS, developer-facing, and enterprise software systems. Operated as founder/CEO, VP AI, senior engineering director, data analytics executive, AI governance technical lead, and AWS senior specialist across AI/ML and Big Data. Solves business problems where unstructured data, manual workflows, product capability, and enterprise adoption need to become scalable AI systems.

Combines hands-on LLM/NLP/RAG architecture, full ML lifecycle judgment, cloud deployment depth, product leadership, team building, and C-suite advisory experience. Has built AI products and practices from zero, advised 200+ enterprise AWS customers, directed distributed engineering teams, and delivered production systems across SaaS, HR/HCM, contact-center analytics, financial services, enterprise data platforms, and biotechnology software.

Career Note: Following four years at AWS, I accepted three successive executive leadership opportunities to build new AI, Data Analytics, and governance capabilities in organizations undergoing significant transformation. In 2023 co-founded *Intelligent DataWorks* inc. to commercialize an enterprise GenAI + Business Data platform. Now seeking a long-term executive leadership opportunity following a planned strategic sale of that business.

EXECUTIVE VALUE PROPOSITION

Executive leader combining AI strategy, deep technical expertise, product leadership, enterprise transformation, startup execution, commercialization, organization building, AI governance, and hands-on production delivery.

AI SKILLS / TECHNOLOGIES

AI Leadership: Enterprise AI strategy, applied AI productization, AI platform ownership, AI governance, responsible AI, executive stakeholder advisory, product-engineering alignment, team building, roadmap sequencing, adoption planning.

Generative AI: LLMs, AI agents, agentic workflows, LangChain, LangGraph, OpenAI APIs, Anthropic Claude, RAG, embeddings, vector search, multi-agent systems, prompt/workflow design, evaluation, cost controls, hallucination minimization.

Machine Learning: NLP, document intelligence, unstructured data, forecasting, predictive analytics, optimization, linear programming, model explainability, bias/drift/transparency concepts, MLOps, TensorFlow, SageMaker, SparkML, observability.

Cloud / Data / Engineering: AWS SageMaker, Bedrock, EMR, Glue, Athena, S3, Lambda, Step Functions, API Gateway, Aurora, CDK, CloudFormation, Kubernetes, Docker, Python, SQL, PostgreSQL/PGVector, FastAPI, Flask, Pandas, PySpark, Git, CI/CD, REST APIs, distributed systems, SaaS architecture.

CAREER HIGHLIGHTS

- Founded and directed an AI startup and 11-engineer AI organization.
- Created *AssistX*, a production GenAI assistant platform for 70+ automations across 20+ HR workflows.
- Supported AI and analytics adoption across 200+ AWS enterprise customers.
- Created AWS AI/ML technical communities and trained 180+ global solution architects.
- Delivered TriMark's first AWS data lake, reducing cross-ERP reporting from roughly 2 months to 1 day.
- Technically directed Data Privacy and AI Governance cloud engineering at MassMutual.
- Implemented commercial software products including the globally adopted Ingenuity Pathway Analysis platform.
- Earned AWS ML Elite Gold and Platinum recognition; named inventor on multiple patents.

PROFESSIONAL EXPERIENCE

Technical Co-Founder & CEO | *Intelligent DataWorks inc* | 2023-08 to Present

Founded an applied AI SaaS company to commercialize an enterprise GenAI + business data platform. Owns AI strategy, product vision, platform architecture, engineering execution, workflow design, security posture, customer validation, and strategic transition planning.

- Architected *AssistX* as an AI product platform using LLMs, AI agents, agentic workflows, RAG, PostgreSQL/PGVector, LangChain, LangGraph, APIs, structured metadata, and AWS services.
- Created reusable AI-native product architecture, SDLC workflow automation, API surface and integration patterns, observability, agentic testing concepts, test management evaluation loops, and human-in-the-loop quality practices.
- Produced 70+ AI automations across 20+ workflows, improving adoption, retention signals, software quality, product-led value, and selected manual processes by up to 50x.
- Directed an 11-engineer Agile AI product and engineering team, setting product management roadmap, quarterly planning, cross-team alignment, people leadership norms, quality expectations, and execution discipline.
- Delivered the initial production release within 8 months, converting emerging LLM capability into a durable SaaS platform with application integrity and business-outcome focus.
- Established AI product strategy, roadmap, growth prioritization, GTM narratives, pricing/packaging inputs, AI-mediated buying narratives, customer discovery, expansion options, and financially disciplined business outcomes.
- Applied Python, PostgreSQL/PGVector, FastAPI, AWS, LLM APIs, RAG, AI agents, CI/CD, API lifecycle practices, and evaluation methods to production AI systems.
- Positioned the business for strategic transition after validating product direction, platform architecture, and enterprise workflow value.

Sr. Engineering Director, Workforce Management Service | *SuccessKPI* | 2022-06 to 2023-08

Directed engineering, architecture, and delivery for the Workforce Management component of an AI-powered contact-center analytics SaaS platform. Converted product requirements into cloud architecture, forecasting algorithms, optimization workflows, integrations, and release plans.

- Recruited and directed a 7-member distributed team building AWS-based forecasting, scheduling, visualization, automation, customer-facing product capabilities, Customer Success inputs, and reliable release execution.
- Designed AI-driven forecasting, operations research, workflow automation, integration depth, API-enabled enterprise applications, testing discipline, and quality-focused release patterns for CCaaS ecosystems.
- Delivered the first working WFM release within 6 months for two flagship enterprise customers and advocated early generative AI adoption across the platform.

Sr. Director, Data Analytics & Operations | *TriMark USA* | 2021-08 to 2022-05

Recruited to build the company's first enterprise data lake initiative across 11 ERP systems and establish enterprise analytics capability. Partnered with marketing, supply chain, finance, and executive stakeholders to prioritize analytics use cases and KPI delivery.

- Secured support for an AWS data lake strategy enabling data engineering, analytics, and future machine learning capabilities across a \$1B+ enterprise.
- Delivered TriMark's first AWS data lake within 7 months, automating nightly ingest, cataloging, consolidation, and normalization across 11 ERPs.
- Improved cross-ERP reporting cycles from roughly 2 months of manual work to 1 day, a 60x improvement in insight delivery.

Technical Lead for Cloud, Data Privacy and AI Governance | *MassMutual* | 2020-11 to 2021-08

Established AWS architecture and hands-on implementation for Data and AI Governance capabilities, including privacy rights management, enterprise data catalog, adaptive policy framework, governance APIs, and AI governance initiatives.

- Coordinated product managers, UX-adjacent stakeholders, enterprise architecture, site reliability, and developers to convert requirements into cloud-native architecture, CI/CD, and production delivery.
- Provided MLOps guidance for model transparency, bias, drift detection, auditability, monitoring, and lifecycle management using Amazon SageMaker.

- Delivered a first cloud-native privacy rights platform in 8 months, automating roughly 90% of a formerly manual workflow.

VP of Machine Learning & AI | NorthBay Solutions | 2019-01 to 2020-11

Recruited out of AWS by the NorthBay Solutions CEO to head up a new AI/ML practice for enterprise customers and AWS-based product acceleration. Combined customer advisory, hands-on engineering, solution architecture, and executive delivery.

- Generated CEO approval for an AWS Data Lake + ML Accelerator SaaS initiative, built the initial system hands-on, and shaped customer, partner, and sales-led demonstrations.
- Delivered AI/ML and analytics solutions for Dun & Bradstreet, Harvard Business School, Invesco, and other enterprise customers.
- Departed after the 2020 COVID pandemic wiped out NorthBay's revenues and triggered a large company layoff that included this role.

Sr. Specialist Solutions Architect AI/ML, Big Data & Analytics | Amazon Web Services | 2015-05 to 2018-12

Served as an AWS senior specialist across AI/ML, Big Data, analytics, data lakes, machine learning, and enterprise cloud adoption. Advised senior customer stakeholders and enabled AWS field teams with technical strategy, architecture, demos, and training.

- Created and grew AWS internal AI/ML communities, enabling 180+ solution architects with reusable assets, open source patterns, platform ecosystem guidance, and training materials.
- Advised 200+ enterprise customers on AI strategy, ML, data architecture, APIs, platform ecosystems, observability, SaaS adoption, governance, product strategy, and production patterns.
- Presented 50+ AI/ML sessions, building external narrative credibility with customers, partners, analysts, engineering teams, and enterprise buyers evaluating AI-enabled tooling.

SELECTED CAREER ACHIEVEMENTS

- Conceived, designed, and implemented the Ingenuity Pathway Analysis product architecture that became a globally adopted bioinformatics and knowledge-discovery platform.
- Created reusable platform patterns for AI assistants, enterprise data lakes, privacy-rights automation, forecasting/scheduling optimization, and AWS-based ML accelerators.
- Translated complex AI, ML, analytics, and cloud capabilities into executive-ready strategy, working systems, adoption plans, and measurable operational outcomes.

PATENTS / PUBLICATIONS / SPEAKING

- United States Patent No. US 8,793,073.
- United States Patent No. US 8,489,334.
- BioWizard Intelligent Agent Architecture patent application (1998) for genomic knowledge discovery.
- Delivered 36 formal presentations on Machine Learning, Deep Learning, and Artificial Intelligence at large AWS and non-AWS/industry events.
- AWS ML Elite Gold and AWS ML Elite Platinum awards.
- AWS re:Invent Rockstar and AWS Certification SME recognition.

EDUCATION

- Ph.D., Molecular Biology / Microbiology & Immunology, University of Western Ontario, Canada.
- Hon. B.Sc., Microbiology & Immunology, University of Western Ontario, Canada.
- Canadian Medical Research Council Post-Doctoral Research Fellowship.