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Capital One Hiring Team

Re: Lead AI Engineer (AI Foundations)

Dear Capital One Hiring Team,

Building foundational AI services for inference, retrieval, evaluation, safety, and scalable production use closely matches my current hands-on engineering work.

At Intelligent DataWorks, I architected and built the AssistX core and first 80% of its initial application using Python, FastAPI, LLMs, RAG, agents, PostgreSQL/PGVector, APIs, Docker, AWS, and CDK. The platform supports 70+ automations across more than 20 workflows, accelerates selected work by up to 50x, and sustains 99.9% availability.

I established model routing, caching, evaluation, guardrails, human review, observability, security, cost controls, release management, and incident practices. At AWS, I advised more than 200 enterprise customers on AI, ML, data, and cloud architectures. At MassMutual, I worked on Responsible AI, model transparency, bias, drift, ownership, risk classification, monitoring, human oversight, and auditability.

My strongest evidence is in production LLM inference, retrieval, agents, evaluation, and platform optimization rather than foundation-model training or GPU-kernel engineering. The computer-science degree requirement is offset by a Ph.D. and extensive hands-on software and AI delivery. Intelligent DataWorks is pursuing a strategic acquisition, and I am seeking a long-term operating role elsewhere. I would welcome a discussion about building reliable, responsible AI foundations in Cambridge.

Sincerely,

Keith Steward, Ph.D.