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D.A. Davidson Companies  
Hiring Team

Dear Hiring Manager,

I am writing to express my interest in the AI and Automation Engineer position at D.A. Davidson Companies. Your focus on building intelligent assistants and automated workflows within a Microsoft-based environment aligns well with my experience developing AI agents and workflow automation systems. The opportunity to apply AI capabilities in financial services, where compliance and security are paramount, is particularly exciting to me.

As a Graduate Research Assistant at Lawrence Technological University, I built and compared AI workflow systems using both no-code platforms (n8n) and code-first approaches (CrewAI, LangChain). I deployed agent services on AWS cloud infrastructure, integrating vector databases for semantic search and RAG pipelines. This work reduced manual process time by 70% through intelligent automation, directly relevant to the productivity gains you are seeking.

My technical background includes strong proficiency in Python, JavaScript/TypeScript, and building RESTful APIs. I have hands-on experience with CI/CD pipelines using GitHub Actions, containerized deployments, and cloud services. I built an 8-microservice MLOps platform with automated model versioning, deployment pipelines, and monitoring dashboards. While my cloud experience is primarily AWS-based, the architectural patterns translate directly to Azure services.

I am particularly drawn to the RAG and LLM aspects of this role. I developed a research agent using retrieval-augmented generation with vector databases (Qdrant, pgvector), embeddings, and reranking for domain-specific Q&A.; I have also fine-tuned LLMs using QLoRA for specialized tasks and have extensive experience with prompt engineering to improve response quality and accuracy.

At Infor, I worked with enterprise clients including Ferrari, Boeing, and Triumph, giving me experience delivering solutions in environments where data security and compliance matter. I understand the importance of building AI systems that are auditable, secure, and aligned with regulatory requirements.

I would welcome the opportunity to discuss how my AI automation and workflow engineering experience can contribute to D.A. Davidson's digital transformation initiatives. Thank you for considering my application.

Sincerely,

V Harsha Vardhan Yellela