

Jaylen Callahan

Application for Architect, Data Science



Contact

**Address**

Chicago, Illinois 60611

**Phone**

(312) 555-0187

**Email**

jaylen.callahan@example.com

**LinkedIn**

<https://linkedin.com/example/jaylencallahan>

**Website**

jaylencallahan.com

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Hiring Team
Northstar Quantive
Richmond, Virginia

Dear Hiring Team at Northstar Quantive,

I am excited to apply for the Architect, Data Science role at Northstar Quantive. My background in enterprise AI/ML, client advisory work, and production delivery fits the needs of a growing Data Science practice. I bring a practical approach to turning business goals into reliable machine learning systems that teams can use and maintain.

I have led **technical strategy** and delivery for retail, manufacturing, energy, media, and utility clients. My work includes **secure, maintainable Databricks platforms** and **end-to-end ML pipelines** covering data analysis, feature engineering, model training, deployment, and MLOps. I have guided Data Scientists, Data Engineers, and ML Engineers through discovery, validation, release, and operational handoff, with clear standards for code quality and model reliability.

My technical strengths include Python, SQL, forecasting, anomaly detection, recommendation systems, revenue management, price modeling, and causal inference. I have built rapid prototypes and **proofs of concept** with Unity Catalog, MLflow, Delta Tables, Hugging Face, LangChain, DSPy, and **commercial LLM APIs**. I have shaped **Statements of Work**, feasibility assessments, pricing options, and presales presentations, then explained model trade-offs and business-value metrics to executive and technical audiences.

Northstar Quantive interests me for its focus on putting AI into production for complex enterprises and its work across Data Strategy & Advisory, Data Engineering, Analytics & Visualization, Generative AI & ML, and Cloud Migration & Modernization. The chance to support meaningful client projects, share ideas with Data & AI practitioners, and build long-term client capability through workshops is especially appealing.

Thank you for your consideration. I would welcome the opportunity to discuss how my experience can support Northstar Quantive's clients and Data Science practice.

Sincerely,

Jaylen Callahan

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