

JAMES CALLAHAN

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PROFESSIONAL EXPERIENCE

Deloitte Consulting | Arlington, VA

Data Scientist

12/2024 – Present

- Develop consumer-facing applications which leverage large language models (LLMs). Uses retrieval-augmented generation (RAG) in conjunction with hybrid or semantic search to surface and feed the LLM context relevant to the organization to answer queries efficiently and satisfactorily.
- Use Python NLP libraries in conjunction with LLMs to produce seamless document-drafting workflows that adhere to organizational standards. Save users thousands of hours monthly on drafting memos and documents.
- Collaborates with cross-functional product teams to deploy AI-powered solutions at scale for over 50,000 end-users. Promotes user adoption through iterative development and feedback cycles before enterprise launch.
- Agentizes suites of AI/ML inference tools to consolidate the user-interface and workflow. Creates PySpark and SQL analytics pipelines to track user-behavior given these new agentic workflows.

Guidehouse | Arlington, VA

08/2023 – 11/2024

Data Scientist - Consultant

- Built NLP-based entity-resolution tools to unify disparate data sources, improving data quality and enabling more accurate reporting.
- Present and explain developed AI/ML and reporting solutions as a client-facing consultant. Engaged in business development work, incorporating these solutions into new quals and preparing responses to proposal requests.

CGI | Pittsburgh, PA

01/2023 – 05/2023

Data Analytics Consultant Intern

- Designed ETL and feature engineering pipelines supporting customer segmentation models for the banking sector.
- Applied unsupervised ML techniques optimized through hyperparameter tuning and other methods such as One-Hot-Encoding to identify high-value customer segments for targeted marketing

Pennsylvania Air National Guard | Coraopolis, PA

12/2017 – 12/2023

Aircraft Technician – Staff Sergeant

- Increased training compliance rates and reduced unit spend on aerospace non-wear items by ~\$40k per year.
- Collaborated with a team of 14 in managing \$640M of government material assets.

EDUCATION

Master of Science | Quantitative Economics | University of Pittsburgh | 2023

Bachelor of Science | Economics – Persian Language | University of Pittsburgh | 2022

CERTIFICATIONS & INFO

Palantir Foundry Data Engineer Professional | 10/2024

Palantir Foundry Application Developer Professional | 03/2025

Databricks Generative AI Fundamentals | 02/2025

SECRET Clearance | Active but not seeking cleared work.