

JAMES CALLAHAN

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CLEARANCE

Active **SECRET** | Continuous Evaluation

EDUCATION

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

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

PROFESSIONAL EXPERIENCE

Guidehouse | Arlington, VA

08/2023 – Present

Data Scientist - Consultant

- Provides cutting-edge prescriptive, descriptive, and predictive analytics capabilities to public sector clients as part of the Defense & Security team, specializing in applications of data science in the aviation sector.
- Leverages Palantir Foundry running on the AWS GovCloud as a data platform to build highly versatile tools for clients emphasizing data quality and the incorporation of CI/CD practices.
- Led two key projects for a defense client. One to replace a proprietary low-code reporting platform with a modular, more performant open-source framework. The other to create a tool which used NLP for entity resolution.
- Presents and explains developed AI/ML and reporting solutions as a client-facing consultant. Engages in business development work, incorporating these solutions into new quals and preparing responses to RFPs.

CGI | Pittsburgh, PA

01/2023 – 05/2023

Data Analytics Consultant Intern

- Created ETL and feature engineering workflows. Enforced proper version control (git) with a team of 3 developers.
- Used unsupervised machine learning techniques, including KMeans, One-hot encoding, and hyperparameter tuning (GridSearchCV etc.), to create market-segmentation models for use in the banking sector.
- Produced data visualizations and model documentation.

Pennsylvania Air National Guard | Coraopolis, PA

12/2017 – 12/2023

Aircraft Technician – Staff Sergeant

- Analyzed flight data to troubleshoot, repair, and perform lifecycle management on KC135 jet engines.
- Created a mentorship program for new Airmen which increased training compliance rates and reduced unit spend on aerospace non-wear items by ~\$40k per year.
- Delivered robust aircraft maintenance solutions to maintain air-refueling capabilities during multiple deployments.
- Collaborated with a team of 14 in managing \$640M of government material assets.

CERTIFICATIONS

Databricks Lakehouse Fundamentals | 01/2024

Palantir Foundry Data Engineer Associate | 09/2023

Intermediate Persian Language Proficiency | Dushanbe, Tajikistan | 07/2021

TECHNICAL SKILLS

Azure, Databricks, Palantir Foundry, R (Shiny, Plotly, etc.), SQL, Python (Jupyter Notebooks, Pandas, scikit-learn, PySpark, Polars, etc.), Streamlit, PowerBI, Typescript/Javascript, Docker