# 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.

# CERTICATIONS

**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