

Robert Edwardes
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PROFESSIONAL EXPERIENCE

SNTC (contract) - Washington, DC

Data Analyst, March 2023–October 2023

- Processed and analyzed contract and financial data from FPDS and internal data sources to facilitate contract closeout for Navy's HCA's and DMCA. For DASN(P) data migration to the cloud.
- Produced executive-level reports tracking project progress, including budget management and contract closeout milestones.
- Drafted the DASN(P) Data as a Strategy Brief section for AI and ML. Including a section on Generative AI not being suited for contract writing because of the uniqueness of each contract and the non-determinative nature of the current Foundational Model.

Campaign Headquarters - Washington, DC

Director of Data Services, October 2022–February 2023

- Managed a team of 3 staffers both on location and remotely, ensuring strong communication and issue resolution for Clients and Customer Service.
- Developed SQL and NoSQL solutions to optimize in-house tools and remove bottlenecks, and improved our ETL process.
- Added automation to the current ETL process by autodetecting column types and filtering the data list prior to sending them to a 3rd party for record IDing.

Fair Lines America – Alexandria, VA

Data Engineer, May 2021 – October 2022

- Managed Azure Cloud services, adapting DTUs, subscriptions, and policies based on project status.
- Built a data warehouse on Azure SQL for centralized storage of spatial and population datasets, allowing for cross-source data utilization.
- Collaborated with other departments to improve processes and create a robust enterprise data warehouse.

Fair Lines America – Alexandria, VA

Senior Data Analyst, April 2019 – May 2021

- Utilized NLTK and spaCy to mine and analyze hundreds of hours of public testimony.
- Reviewed software, math models, and statistical methods for legal cases, summarizing and presenting results to non-technical partners.
- Developed tools using combinatorics to measure vote power and k-means clustering with traditional spatial analytics using Census Bureau datasets to measure key metrics

for legality and constitutionality under different court tests.

Maryland Victory Center

AB/EV Director, June– November 2018

- Analyzed field and polling data to improve demographic modeling using regression analysis and descriptive statistics.
- Used survey data to make staffing allocation decisions for major blitz days and key events during the campaign.
- Managed the student internship program.

PROJECTS

- Created a suite of tools to streamline GIS dataset processing for redirecting process using GeoPandas and shapely. To better understand changes to political geographies and the effects on communities of interests. [Fair Lines America Toolkit](#)
- Built a CSV to API with Django that can be quickly deployed on Azure Apps, allowing it to scale horizontally automatically based on load and Azure App Service Tier. [CSV to API](#)
- Built an Information Retrieval application using Django, integrated with Postgres Vector extension, and 'paraphrase-multilingual-MiniLM-L12-v2' model. [Information Retrieval System](#)

CERTIFICATES

Microsoft - Azure Fundamentals, [AZ-900](#)

EDUCATION

Fairleigh Dickinson University - Teaneck, NJ

Bachelor of Arts, May 2012

Major in Political Science with a minor in Economics

Georgetown University – Washington, DC

Certificate - Digital Marketing

Python: Web-Frameworks (Django, Flask, Fast API), **GIS** (GeoPandas, shapely, PySal), **NLP** (NLTK, spaCY, Gensim), **ML** (Transformer (HuggingFace), TRL, PyTorch, Scikit-Learn), **Other** (Pandas, Statsmodels, Celery, PySpark)

Databases: Postgres (PostGIS, pg vector), SQLite3 (SpatialLite), SQL Server, MongoDB

Cloud: Azure Blob, Azure VM, Azure SQL, Azure Apps, Azure Functions

Data Tools: Azure Synapse, Azure Databricks, Power BI, Tableau, SQL Server Integration Services (SSIS), SQL Server Report Services (SSRS), SQL Server Management Studio (SSMS), Azure Data Studio

Other: QGIS, Excel, R, Scala, Apache Spark, GitHub, GitHub Action, Docker