Robert Edwardes
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PROFESSIONAL EXPERIENCE

SNTC (contract) - Washington, DC
Data Analyst, March 2023–October 2023
- Conducted detailed analysis and processing of financial data from both external (FPDS, SAM.gov) and internal sources to support the closeout of contracts for Navy's Heads of Contracting Activities (HCA's) and Defense Contract Management Agency (DMCA). This involved examining contract statuses and financial information to facilitate the contract closure process.
- Supported the migration of financial data for the Deputy Assistant Secretary of the Navy for Procurement Management (DASN(P)) to the cloud. Ensured a smooth transition and accessibility of financial information during the migration process.
- Produced high-level reports for executives to monitor project progress, focusing on budget management and tracking contract closeout milestones. These reports provided comprehensive insights into contract status, aiding informed decision-making at the executive level.
- Developed Tableau dashboards tailored to reporting on the DASN(P) technology management portfolio. These dashboards offered a consolidated view of IT expenditures, allowing for a detailed breakdown of spending within a user-friendly interface. This facilitated enhanced accessibility and in-depth analysis of financial data related to IT investments.

Campaign HQ - Washington, DC
Director of Data Services, October 2022–February 2023

- Supervised a team of three staffers, both onsite and remotely, ensuring effective communication and prompt resolution of issues for both clients and the customer service team. This involved coordinating tasks, providing support, and fostering collaboration to maintain high standards of service delivery.
- Designed SQL and NoSQL solutions to strategically enhance the performance of in-house tools used for managing telemarketing data. This effort focused on identifying and resolving performance bottlenecks, leading to significant improvements in operational efficiency.
- Led initiatives to improve the Extract, Transform, Load (ETL) process, resulting in streamlined data workflows and enhanced system responsiveness. By optimizing data extraction, transformation, and loading procedures, the efficiency of processing telemarketing data was notably increased.
- Implemented automation within the ETL process by incorporating autodetection of column types and data list filtering before transmitting data to a third party for Home Registry Lookup (HRL). This automation initiative not only reduced operational costs but

also ensured data accuracy and integrity were maintained, thereby improving overall efficiency in handling telemarketing data.

Fair Lines America – Alexandra, VA
Data Engineer, May 2021 – October 2022

- Oversaw Azure Cloud services, adjusting Database Transaction Units (DTUs), subscriptions, and policies as per project requirements and progress. This involved optimizing resource allocation and access controls to ensure efficient utilization of cloud resources.
- Established a data warehouse using Azure SQL to centralize storage of spatial and population datasets. This facilitated seamless integration and analysis of data from various sources, enabling comprehensive spatial and demographic insights.
- Engineered an Extract, Transform, Load (ETL) process tailored for GIS data, leveraging Azure Virtual Machines (VMs) to host the pipeline. This process transformed data into a schema optimized for spatial indexing, enhancing query performance and enabling efficient spatial data analysis within the Azure environment.

Fair Lines America – Alexandra, VA
Senior Data Analyst, April 2019 – May 2021
- Employed Natural Language Toolkit (NLTK) and spaCy to extract insights from extensive public testimony data. Specifically, identified critical sentences showcasing instances of population misuse, providing valuable insights into consumer behavior and demographics.
- Conducted thorough reviews of software, mathematical models, and statistical methods pertinent to legal cases. Summarized and communicated findings to non-technical stakeholders, focusing on their implications for consumer data and census information in legal contexts.
- Utilized R Studio to visualize GIS models and utilize raster data sets from U.S. Geological Survey (USGS) to examine legality of boundaries to help with the modifiable areal unit problem (MAUP).
- Created tools utilizing combinatorics to quantify voting power and applied k-means clustering along with traditional spatial analytics techniques to analyze Census Bureau datasets. These tools measured key metrics related to legality and constitutionality under various court tests, offering valuable insights into consumer demographics and census data for legal decision-making processes.

Maryland Victory Center
AB/EV Director, June– November 2018
- Conducted analysis on field and polling data, employing regression analysis and descriptive statistics to refine demographic modeling. This involved examining various data sets to enhance understanding of target demographics and improve campaign strategies.
- Utilized survey data to inform decisions regarding staffing allocation for significant blitz days and key events throughout the campaign. This involved analyzing survey

responses to determine optimal staffing levels and resource allocation for effective campaign execution.
- Oversaw the student internship program, managing recruitment, training, and coordination of interns. This included assigning tasks, providing guidance, and ensuring the successful integration of interns into the campaign team to support various initiatives, including market research efforts.

PROJECTS
- Developed a suite of tools to optimize GIS dataset processing utilizing machine learning, leveraging GeoPandas and Shapely. These tools were designed to enhance comprehension of alterations in political geographies and their impacts on community interests. Fair Lines America Toolkit
- Created a Flask-based Google News headline scraper integrated with NLTK for headline text analysis. The application includes a searchable and sortable table for efficient data retrieval. NLP Google Headlines
- 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. CSV to API
- Constructed an Information Retrieval application using Django, incorporating the Postgres Vector extension and the 'paraphrase-multilingual-MiniLM-L12-v2' model from Hugging Face. Information Retrieval System

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CERTIFICATES
Microsoft - Azure Fundamentals, AZ-900
EDUCATION
Fairleigh Dickinson University - Teaneck, NJ
BA in Political Science with a minor in Economics
Georgetown University – Washington, DC
Certificate - Digital Marketing

Python: Web-Framworks (Django, Flask, Fast API), **GIS (**GeoPandas, shapely, PySal), **NLP (**NLTK, spaCY, Gensim), **ML/NN (**Transformer (HuggingFace), TRL, PEFT, PyTorch, Scikit-Learn), **Data (**Pandas, Statsmodels, PySpark)
Databases: Postgres (PostGIS, pg vector), SQLite3 (SpatialLite), SQL Server, MongoDB
Cloud: Azure Blob Storage, 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, R, QGIS