Alan J Averett

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EDUCATION

Brigham Young University- Idaho Rexburg, ID
B.Sc. Data Science, Statistics; *Major GPA: 3.8/4.0* Apr 2020 - Dec 2023

- **Certifications**: Web and Computer Programming (3.7/4.0); Machine Learning (4.0/4.0)
- **Leadership and Awards**: Data Science Society President, Hispanics in STEM Founding Member, Chief Lab Manager for School-wide Data Science lab, TA for Mathematics Department (5 Classes), 1st place (overall) for 3 School-wide Hackathons

EXPERIENCE

Booz Allen Hamilton Norfolk, VA
Senior Consultant, Data Engineer Apr 2024 - Present

- Developed and deployed a comprehensive **ETL pipeline** using **Databricks**, **PySpark**, integrating unstructured ship data with Department of Navy data to create a predictive maintenance dashboard in **Qlik**, enabling executives at AIRLANT to efficiently track aircraft carrier equipment damage and streamline maintenance processes, reducing carrier downtime.
- Initiated and developed a **data pipeline** for automated report generation from unstructured readiness data across several ships, delivering actionable insights to AIRLANT leadership, improving strategic visibility and operational responsiveness.
- Collaborated within an **Agile (Scrum/Kanban)** team environment for **CI/CD**, authoring detailed pipeline documentation in **Confluence** and **Google Docstrings**, facilitated client communication (active secret clearance).

Corecodec San Antonio, TX
Software Developer Dec 2023 - Apr 2024

- Engineered a **Python script with Selenium** that improved the detection of unauthorized copyrighted software in mobile applications, transforming a manual process into an automated system. Used **Pandas** for data management while scanning application stores, extracting data, and **automating reports** to identify indicators of infringement. This solution converted a 5-hour task into a streamlined 10-minute operation, reducing costs while improving accuracy.
- Maintained regular communication with the CEO, providing updates on project progress and discussing approaches to enhance software development and data analysis processes.

Idaho Entrepreneur Center Rexburg, ID
Data Consultant (Contract) Sep 2023 - Dec 2023

- Collaborated directly with executive leadership of an international non-profit's identity documentation program, **implementing data integrity solutions** that preserved authenticity of participant records and optimized resource allocation
- Eliminated over fifty anomalous entities by **developing and automating** in-house tuned **anomaly detection** algorithms in **Python**, analyzing over 200,000 submissions of unstructured, participant-submitted information for quality assurance

Data Analyst (Contract) May 2023 - Sep 2023

- Collaborated with product leadership to implement website-wide content recommendation system using **topic modeling**
- Developed web applications using **Plotly** and **Streamlit** that cross-referenced company-owned content repositories with public records using **text vectorization methods** in **Python**, improving research capabilities for the client

WPA Intelligence SE Washington, DC
Machine Learning Intern Jul 2022 - Nov 2022

- Analyzed and visualized public demographic data trends using **SQL** and **R's tidyverse** to create digestible reports for over a hundred public outreach and political campaigns across the United States, employing **machine learning models** to predict ideological disposition and turnout, enabling clients to strategically allocate resources and maximize engagement impact
- Improved accuracy and AUC of all future ML models by 1-3% by feature engineering **GIS data** to classify over 100 million voter records into 12 population density granularities using US Census Bureau's geographic spatial data and **R's sf** library

SKILLS

- **Python/R**: numpy, pandas, polars, pyspark, jupyter, sklearn, tensorflow/keras, selenium, spaCy, statsmodels, tidyverse
- **Visualization**: ggplot2, Streamlit, matplotlib, seaborn, plotly, altair, Qlik, PowerBI, Tableau
- **Other Technical Skills**: Databricks, Excel, SQL, Quarto, LaTeX, Regex, Docker, Agile (Scrum, Kanban), Confluence