

Alan J Averett

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EDUCATION

Brigham Young University–Idaho

B.Sc. Data Science, Statistics

Rexburg, ID

Apr 2020 - Dec 2023

- **Achievements:** Soc of Hispanic Professional Engineer Scholarship, President of Data Science Society, Chief Lab Manager

EXPERIENCE

Booz Allen Hamilton

Data Engineer (Senior Consultant)

Salt Lake City, UT

May 2024 - Present

- Led **end-to-end ETL processes** for multi-source naval time-series data, implementing a **medallion architecture** in **Databricks** and orchestrating data pipelines using **Spark SQL, Pyspark (Python)**, and **Databricks** Jobs/Workflows
- Built, delivered, and maintained robust, **KPI-driven**, mission-critical dashboards in **QlikSense** compliant with QPAS technical standards to ~76 stakeholders across several naval commands to inform about fleet-wide warfighting readiness
- Operated in **Scrum and Agile** development cycles for **CI/CD** on client deliverables, **Active Secret Clearance**.

Mountainland Technical College

Adjunct Faculty Instructor; *Part-time*

Lehi, UT

Jul 2025 - Present

- Delivered comprehensive instruction for **Excel, Python (Pandas, Sklearn), R (Tidyverse), SQL, Power BI**, and **Tableau**
- Instructed intro to intermediate level statistics for hypothesis testing using various tests in practical business applications
- Collaborated with academic leadership on **curriculum development** to ensure course alignment with industry standards

Corecodec

Data Engineer Intern

San Antonio, TX

Dec 2023 - Apr 2024

- Designed **ETL pipeline architecture** using **Python and Selenium** to regularly extract large-scale unstructured data from app-repositories, built **custom analytical models** integrated into **Pandas-based transformation workflows** to detect copyright infringement patterns, and generated automated reports in **Excel** using **openpyxl** for actionable insights.

Research & Business Development Center

Data Consulting Intern

Idaho Falls, ID

Sep 2023 - Dec 2023

- Collaborated with FamilySearch executive leadership to deploy several in-house tuned **anomaly detection** algorithms in **Python**, analyzing over 200k submissions of unstructured, participant-submitted information for **quality assurance**
- Developed dashboards using **Plotly** and **Streamlit** that cross-referenced firm-owned content repositories with public records using **text vectorization** in **Python**, improving research capabilities for the Wilford Woodruff Papers Foundation

WPA Intelligence

Machine Learning Intern

SE Washington, DC

Jul 2022 - Nov 2022

- Analyzed and visualized voter demographic trends using **SQL** and **R's tidyverse** to create digestible reports for hundreds of civic campaigns, training and deploying **machine learning models** to predict ideological disposition and voter turnout,
- 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:** pandas, pyspark, numpy, polars, sklearn, TensorFlow/Keras, xgboost, statsmodels, spaCy, selenium, tidyverse
- **Visualization:** ggplot2, matplotlib, seaborn, plotly, altair, Streamlit, QlikSense, R Shiny, Power BI, Tableau, Mermaid
- **Other Technical Skills:** SQL, Spark SQL, Excel, Quarto, LaTeX, regex, Agile Workflow (Scrum), Confluence
- **Development:** Databricks, Jupyter, Spark, Git, GitHub, Docker, Azure