

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