

Alan J Averett

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EDUCATION

Brigham Young University- Idaho

B.Sc. Data Science, Statistics; *Major GPA: 3.8/4.0*

Rexburg, ID

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

Senior Consultant, Data Scientist

Norfolk, VA

Apr 2024 - Present

- Designed and implemented **automated workflows** to generate readiness reports across all aircraft carriers under contract specification, delivering consistent, actionable metrics that enhanced strategic oversight and decision-making capabilities.
- Independently created **end-to-end data pipelines**, extracting and migrating diverse data sources to **Databricks** environment, transforming and joining datasets under **medallion architecture**, and loading aggregated data into **Qlik Sense**
- Built and delivered intuitive mission-critical dashboards in **QlikSense**, fully compliant with **QPAS**, and successfully navigated approval processes to secure operational deployment authorization from client under strict contract requirements.
- Collaborated within **Agile** for **CI/CD**, maintained technical documentation in **Confluence**; **Active Secret Clearance**.

Corecodec

Software Developer

San Antonio, TX

Dec 2023 - Apr 2024

- Engineered and maintained software using **Python and Selenium** that improved the detection of unauthorized copyrighted software in mobile applications, transforming a manual process into an automated system. Used **Pandas** for data analysis 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 digitally hunt and catch pirates.

Idaho Entrepreneur Center

Data Consultant; *Contract*

Rexburg, ID

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 200k submissions of unstructured, participant-submitted information for data 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

Pulse Decision Science

Machine Learning Intern

SE Washington, DC

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:** pandas, numpy, polars, scikit-learn, tensorflow/keras, xgboost, statsmodels, spaCy, selenium, tidyverse (dplyr)
- **Visualization:** ggplot2, matplotlib, seaborn, plotly, altair, Streamlit, QlikSense, R Shiny, PowerBI, Tableau, Mermaid
- **Development:** Databricks, Jupyter, Spark, Git, GitHub, Docker, Azure
- **Other Technical Skills:** SQL, Excel, Quarto, LaTeX, regex, Agile Workflow (Scrum), Confluence