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, SHPE Founding Member, Winner of 3 School-wide Hackathons

EXPERIENCE

Booz Allen Hamilton   Norfolk, VA
Senior Consultant   May 2024 - Present
- Implemented end-to-end **ETL solutions** with **Databricks**, ingesting and transforming readiness reports for Nuclear-Powered Aircraft Carriers (CVNs), enabling data-driven insights and visualization on interactive **Qlik** dashboards for the CNAL's Readiness Operation Center, using analytics tools, including **Advana's Jupiter** (**PySpark, Python, SQL**)
- Collaborated within an **Agile** framework using **Kanban and Scrum** for contributing to the continuous improvement and efficiency of the data processing pipeline, and ensuring timely delivery of actionable insights for carrier readiness and operability assessments (obtained Secret Clearance)

Corecodec   San Antonio, TX
Software Developer   Dec 2023 - Apr 2024
- Transformed a manual 5-hour task into a streamlined 10-minute operation by engineering an advanced **Python script with Selenium** to automate the detection of unauthorized use of copyrighted software in mobile applications. Utilized **Pandas** for efficient data management and analysis for scanning mobile application stores, downloading and extracting data, and **automating reports** to identify key indicators of copyright infringement for software usage.
- Maintained regular communication with the CEO, providing updates and insights on project progress, and discussing strategic approaches to enhance software development and data analysis processes.

Idaho Entrepreneur Center   Rexburg, ID
Junior Data Scientist   May 2023 - Dec 2023
- Eliminated 50+ anomalous entities in client's global campaign by **developing and automating** in-house tuned **anomaly detection** methods in **Python** for over 200k+ submissions of unstructured raw survey data
- Delivered an interactive recommend algorithm with **Python, Plotly, and Streamlit** using various **NLP** tools such as **sentiment analysis**, **unsupervised textual clustering**, and **time-series analysis**, to produce detailed analytics for my client's production team, enhancing user engagement

WPA Intelligence   SE Washington, DC
Machine Learning Intern   Jul 2022 - Nov 2022
- Analyzed and visualized voter data trends using **SQL** and **R's tidyverse** to create digestible reports for over a hundred political campaigns, employing **machine learning models** to predict ideological disposition and 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 **R's sf**

Mathematics Department- BYUI   Rexburg, ID
Chief Lab Manager, Teacher's Assistant   Apr 2022 - Dec 2023
- Coordinated all data science activities, managed all data science tutors, and taught various programming and statistics courses including Business Stats, DS Programming, Data Wrangling and Viz., Big Data Programming, and Linear Algebra

Lone Star Polypac   Wimberly, TX
Technical Aide   Jun 2021 - Apr 2022

SKILLS

- **Python**: Pandas, PySpark, Jupyter, numpy, sklearn, polars, tensorflow (keras), pytorch, bs4, selenium, spacy, statsmodels
- **Visualization libraries**: Databricks, Streamlit, ggplot2, matplotlib / seaborn, plotly, altair, Qlik, PowerBI
- **Other Technical Skills**: R's tidyverse, Excel, VBA, SQL, Spark SQL, Git/GitHub, Quarto, LaTeX, Regex, Docker, Advana