Alan J Averett

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EDUCATION

Brigham Young University- Idaho Rexburg, ID
B.Sc. Data Science; Minor in Statistics Apr 2020- Apr 2024
Certifications: Machine Learning, Business; Web and Computer Programming

EXPERIENCE

Mathematics Department BYU-Idaho Rexburg, ID
Data Science Lab Coordinator May 2022-Present

- Tutored students seeking help in programming and mathematics for various intermediate level data science courses using various data science and machine learning libraries within Python including Pandas, Numpy, Sklearn, and TensorFlow

Teacher's Assistant Apr 2022- Present

- **DS250**: Taught DS Programming, viz, and basic ML with Pandas, NumPy, Sci-kit Learn
- **DS350**: Taught Data Wrangling and Visualization with R tidyverse (dplyr, ggplot2 etc.)
- **MATH221**: Taught Business Statistics with Excel

WPA Intelligence Washington D.C.
Machine Learning Intern Jul 2022- Nov 2022

- Created digestible reports for 80+ political campaigns by analyzing/visualizing voter data trends with machine learning models that predicted ideological disposition and turnout
- Significantly decreased polling production time by automating sampling methodologies
- Increased accuracy and AUC for all future machine learning models by using GIS data to categorize over 100M records of voter data into 12 granularities of population density

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

- Managed and contributed content for Lone Star Poly's website in order to aesthetically and efficiently relay information to potential customers
- Handled technical requests from management including creating and formatted documents for administrative use

VOLUNTEER

Data Science Society BYU-Idaho Rexburg, ID
President Mar 2023- Present

- Organized six consulting groups of 3-5 students to work with local businesses to help them solve data science problems.
- Oversaw and helped coordinate all projects undertaken by the society with the faculty sponsor.

Data Science Project Manager - Onsemi Jan 2023 - Mar 2023

- Collaborated with Onsemi to produce an automated system for news reports
- Enhanced project productivity by delegating tasks in coordination with team member skills

Maryland Baltimore Mission Baltimore, MD
Technology Consultant and Service Organizer Mar 2019 - Feb 2020

- Organized religious community service among teams as a regional director and technology consultant
- Communicated and served with local multilingual institutions.

SKILLS

- **Python**: Pandas, NumPy, Sci-kit Learn, PySpark, Polars, Keras / Tensorflow, BeautifulSoup 4
- **R**: CAR, Mosaic, RMarkdown, Tidyverse (dplyr, tidyr, stringr, forcats, lubridate, purrr, etc.)
- **Visualization libraries**: Streamlit, ggplot2, Matplotlib / Seaborn, Plotly Express, Altair
- **Other Skills**: Microsoft Excel, SQL, Git/GitHub, Quarto, LaTeX, Regex