JONATHAN WILDING

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EDUCATION

B.S., Mathematics Apr. 2018 - Apr. 2021
Brigham Young University, Provo, UT

- Software Engineering Emphasis

SKILLS

Highly Proficient

AZ 900 Azure Cloud	Azure Data Lake	Data Factory	Databricks	Linear Algebra	SQL
Python	Pandas	Linux	Git	Data Structures	

Proficient

AWS Cloud	Snowflake	Data Warehousing	Cloud	Big Data	Data Modeling	NumPy
Spark	MongoDB	JavaScript	HTML5	Vue.js	Tailwindcss	CSS

EXPERIENCE

Junior Developer Oct. 2021 - Present
HCL Technologies, Sacramento, CA

- Orchestrated data pipeline to automate ETL of customer data in Azure Data Factory.
  - Refined raw CSV customer data into cleansed and transformed columnar datasets, in a three tiered Delta Lake architecture, with Bronze, Silver and Gold tiered datasets.
  - The Bronze tables moved data into Azure Data Lake Storage Gen 2 and converted CSV to Parquet format for efficiency.
  - Silver Level contained the validated and transformed data of five separate tables. Used conditional expressions and table lookups to log and filter errors and invalid data entries.
  - The Gold tier table was created as an aggregate table by a series of queries and joins, to produce an ultra-refined table for analytics and machine learning.
- Generated dashboard of key performance indicators for customer data with Python in Databricks.
  - Wrote complex SQL queries to compile eight key performance indicators, and created over a dozen visualizations to communicate the story behind the data. Improved overall stakeholder understanding of the customer data.
- Predicted customer churn in Python using Pandas and Sklearn with a logistic regression model trained to oversample the minority class with SMOTE.
  - Compared the performance of training data with and without oversampling the minority class.
  - Assessed that by aggressively predicting customer churn, we can target the customers which are more likely to churn with retention programs.
  - Identified the features with the most significant coefficients in the churn model to direct potential retention programs.

Web Development - Research Assistant Sep. 2020 - May 2021
Information Systems Dept., Brigham Young University, Provo, UT

- Designed and produced a web application to test and analyze participant interruptive multitasking performance with A/B testing.
- Developed a full-stack, multiple-choice form creation and management system with Vue.js, Express.js and MongoDB.

Machine Learning Support - Research Assistant Oct. 2019 - Jun. 2020
Mechanical Engineering Dept., Brigham Young University, Provo, UT

- Reduced run time by hours and enabled ML models to run remotely by centralizing computational resources to our high-performance server using JupyterHub and web protocols.

Mongolian Teacher Sep. 2018 - Sep. 2019
Missionary Training Center, Provo, UT

- Taught Mongolian to groups of 6-10 missionaries in an immersive 10-week language course.
- Improved efficiency in planning by creating a website to centralize teaching resources and materials.

Product Quality Control and Regulatory Teammate Jan. 2018 - Apr. 2018
Golub Corporation, Schenectady, NY Jan. 2015 - Dec. 2015

- Automated nutrition label verification with a JavaScript web application for product category managers, saving roughly 30 seconds for each label while improving accuracy.
- Transformed data entry in Excel from a 2-minute process to 15 seconds, with VBA scripting.