William Lonon

Data Scientist

Fayetteville, AR | williamjlonon@gmail.com | (479)-305-8626

My Website + Github

Education

University of Arkansas Honors College:
B.S. in Data Science and Computational Analytics
May 2026
GPA: 3.95

Job Experience

Experiential Learning Supervisor: University of Arkansas
(June 2025 - present)
- *Managed a state-of-the-art data visualization lab*
- *Designed inventory tracking and patron training databases*
- *Developed 6+ workshops to showcase technologies for hundreds of patrons*
- *Trained dozens of employees and patrons on library systems, AR, VR, data visualization, video, and music production equipment.*

Production Operations and QC: MAKR Studio
(May - August 2024)
- *Reduced misprint, miscuts, returns, poor reviews, and waste rate.*
- *Found and eliminated key defects causing the majority of product refunds.*
- *Increased production efficiency through workflow optimization.*

Data Science Projects

Machine Learning Crime Prediction

Python, SKLearn
- *Built a geospatial ML system to predict crime likelihood and detect hotspot regions across San Francisco.*
- *Applied clustering and classification to model temporal and spatial patterns (predictions **8x more accurate than random choice**).*
- *Delivered insights relevant to **resource allocation** and **urban planning**.*

Custom Data Analysis Suite

Python
- *Created a terminal-based data analysis program in Python from scratch*
- *Implemented PCA, linear/logistic regression, and random forest modeling*
- *Engineered utilities for one-hot encoding, regression plotting, and custom feature selection.*

Tour Band Optimization

Python, Pyomo
- *Built a highly parameterized interactive system based on custom TSP*
- *Automatically computes the optimal tour for a travelling band*
- *Considers popularity, budget, location, and time constraints*

Interactive Visual Dashboard for COVID-19

Tableau, Python
- *Created multiple interactive dashboards in Tableau*
- *Displayed infection, hospitalization, death, and comorbidity rates.*
- *Cleaned unfathomably dirty data*

Skills

Machine Learning: Nuanced knowledge of neural networks, algorithms, use cases, and optimization methods

Programming Languages: Python, R, SQL, Java, JavaScript, HTML

Interactive Data Visuals: Fluent in Tableau, PowerBI, can code custom dashboards

Optimization: Pyomo, Linear & Integer Programming, Constraint-based modeling

Data Engineering & Analysis: Data cleaning, General statistical analysis, transformations, feature engineering

Databases: MySQL, NoSQL, Normalized database design

Cloud & Big Data Tools: AWS, Databricks, Posit, Google Cloud

Algorithms: MLPs, CNNs, RNNs, KNN, DBSCAN, K-Means, PCA, Decision Trees, Ensemble Methods, UCS, DFS, BFS, A*, SVM, linear, lasso, ridge, and logistic regressions

Awards

- Summa Cum Laude Honors
- Employee of the Month (EL Supervisor)
- Chancellor's and Dean's List
- Chancellor's Community Scholarship
- Charles D. Brock Endowed Scholarship