

John Hutchinson

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SUMMARY

Data scientist and cloud engineer with hands-on experience deploying machine learning solutions on Azure, optimizing operational workflows, and applying advanced statistical modeling techniques. Proven track record of impact through published research and production-grade MLOps pipelines. Microsoft Certified: Azure Data Scientist Associate (DP-100).

PROJECTS

Healthcare Scheduling Optimization via Probabilistic Modeling

- Developed conditional kernel density models to estimate appointment durations and no-show probabilities.
- Created optimization heuristics to align scheduled durations with actual visit times under uncertainty.
- *Impact:* Increased patients seen by over 20% annually by improving provider utilization.

Tools: Python, NumPy, pandas, scikit-learn

Customer Churn Prediction & Deployment on Azure ML

- Built a modular pipeline using Azure ML SDK v2 to preprocess data, train, and deploy a churn classifier.
- Registered models with MLflow, deployed to a REST endpoint for real-time inference.
- Integrated versioned datasets and MLOps best practices (compute clusters, environment tracking).

Tools: Azure ML, MLflow, scikit-learn, Streamlit, Python

Show Jumping Performance Prediction

IEEE SIEDS Published Research | Best Undergraduate Engineering Paper, Liberty University (2024)

- Extracted and engineered features from webscraped horse and rider data (e.g., age, competition history, variability).
- Trained ranking models to predict top finishers in show jumping competitions.
- *Impact:* Provided interpretable models used for performance scouting and analytics.

Tools: scikit-learn, pandas, NumPy, Matplotlib, BeautifulSoup

EXPERIENCE

Developer & Cloud Engineer Intern

Building Information, LLC – Johnson City, TN

Summer 2024

- Developed and deployed React apps integrated with Azure SQL and Static Web Apps.
- Automated design approval workflows, reducing manual review time and project latency.

Developer & Cloud Engineer Intern

Building Information, LLC – Johnson City, TN

Summer 2023

- Migrated legacy infrastructure to Azure; deployed microfrontend SPAs and scalable APIs.
- Enhanced performance and maintainability of data-driven web applications.

Developer & Business Analyst Intern

Building Information, LLC – Johnson City, TN

Summer 2022

- Created Power BI dashboards and automated SAP sales order workflows.
- Reclaimed database storage and improved plant documentation using ABAP and SQL scripting.

SKILLS & CERTIFICATIONS

Certifications:

- Microsoft Certified: Azure Data Scientist Associate (DP-100)

Languages:

- Python, SQL, JavaScript, C++, Julia, R, MATLAB, ABAP

Frameworks & Tools:

- Azure ML SDK v2, MLflow, scikit-learn, TensorFlow, PyTorch, Streamlit, Power BI, BeautifulSoup, Matplotlib, Numba, Dask, SHAP

Math & Modeling:

- Multivariable Calculus, Differential Equations, Linear Algebra, Probability, Statistics, Operations Research, Numerical Analysis

EDUCATION

B.S. Industrial and Systems Engineering, Minor in Mathematics

Liberty University – Lynchburg, VA | May 2025

- GPA: 3.93 | Dean's List | Summa Cum Laude | Honors College