

Brenden Runion

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WORK EXPERIENCE

Gannett Peak Technical Services

05/17/2021 - Present | 40+ hrs/week

Full Stack Software Engineer / Data Engineer

- Interpreted large-scale Medicaid claims and behavioral health datasets, applying statistical and analytic methods to identify utilization patterns and support state compliance decision-making across Wyoming's statewide BHMS platform.
- Used Python and SQL to develop analyses, automated reporting pipelines, and data products supporting multi-year utilization analysis and provider comparisons for state health program managers.
- Translated ambiguous state agency reporting requirements into concrete, measurable data deliverables; communicated analytical findings and system capabilities to non-technical program managers and state stakeholders through reports and presentations.
- Designed and implemented scalable SQL Server schemas and data models used consistently across multiple behavioral health programs to support high-volume transactional and analytical workloads.
- Built HIPAA-compliant Medicaid claims ingestion pipeline in C#, normalizing raw state data into auditable datasets supporting compliance reporting.
- Authored complex SQL queries, views, and stored procedures powering downstream analytics; optimized performance through indexing and refactoring for large datasets.

EDUCATION

University of Denver

Jan 2024 - June 2025

M.S. Data Science | GPA: 4.0

Relevant coursework: Probability & Statistics, Machine Learning, Deep Learning, Data Visualization, Data Science Tools, Data Science Capstone

University of Wyoming

Aug 2017 - May 2023

B.S. Statistics (Minor: Computer Science) | B.A. Sociology

Relevant coursework: Regression Analysis, Categorical Data Analysis, Design & Analysis of Experiments, Applied Multivariate Analysis, Fundamentals of Sampling

PROJECTS

Healthcare Claims Integration & Analytics - Wyoming Department of Health

- Developed analytical SQL views and Python scripts enabling utilization analysis, provider comparisons, and multi-year trend reporting for state program managers.
- Integrated Medicaid claims data using a custom C# ingestion service, linking external records with internal systems for longitudinal analysis and audit support.
- Implemented secure data handling, audit logging, and traceability to meet HIPAA and state compliance requirements.

Applied Machine Learning & Data Science (Academic & Independent)

- Built and evaluated supervised ML models in Python using TensorFlow, Scikit-Learn, and XGBoost, including text classification for political bias/sentiment analysis and predictive models on global public health datasets (World Bank, GTD).
- Applied NLP techniques including tokenization, embeddings, and sequence modeling; visualized model outputs and evaluation metrics using matplotlib, seaborn, and Plotly to communicate findings clearly.
- Designed reproducible end-to-end ML workflows - data ingestion, preprocessing, feature engineering, cross-validation, hyperparameter tuning, and performance monitoring - using modular Python code and version control.
- Produced analytical reports and visualizations in Power BI and Python to communicate results to technical and non-technical audiences.

TECHNICAL SKILLS

Programming Languages: Python, SQL, R, C#, JavaScript

Machine Learning & Data Science: TensorFlow, Scikit-Learn, XGBoost, Pandas, NumPy, NLP, Feature Engineering, Statistical Modeling, Experiment Design, Model Evaluation & Monitoring

Data Visualization: Power BI, Tableau, matplotlib, seaborn, Plotly

Data Engineering & Infrastructure: ETL Pipelines, SQL Optimization, Schema Design, PostgreSQL, SQL Server, MySQL

Cloud & Tools: Azure Databricks (academic), .NET, Vue.js, Git, Linux, Docker