Bry Taylor
Lead Data Engineer

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WORK EXPERIENCE

UPMC - Lead Data Engineer

2021 - current   Pittsburgh, PA

- Collaborated with the data science team to deploy machine learning models on Amazon Redshift, recording a 91% accuracy rate in predicting patient outcomes.
- Executed data quality checks with Talend which eliminated 39% of data errors detected in the healthcare analytics platform.
- Coordinated with UPMC's research team to develop machine learning models for predictive analytics in Apache Cassandra, shrinking hospital readmission rates by 14%.
- Led the migration of legacy data infrastructure to Presto for ad-hoc querying and analysis, contributing to a **27% rise in concurrent query capacity**.

Argo AI - Machine Learning Engineer

2018 - 2021   Pittsburgh, PA

- Implemented Apache Spark for extracting and selecting relevant features from sensor data collected by vehicles, enhancing model performance by 38%.
- Oversaw MySQL database schemas and indexes for storing and querying high-dimensional sensor data, improving query performance by 26% as per average query execution time.
- Developed XML-based data validation scripts to ensure compliance with Argo AI's data quality standards and regulatory requirements, **reducing data validation errors by 32%**.
- Built reinforcement learning algorithms in Python for autonomous vehicle decision-making, cutting traffic violation events by 11% during simulated driving scenarios.

PNC Financial Services - Software Engineer

2015 - 2018   Pittsburgh, PA

- Set up data validation checks using Luigi for regulatory reporting, slashing reporting errors by 19%.
- Maintained automated testing suites for the company's mobile and web applications, **lowering the number of production defects by 43%**.
- Managed the implementation of canary deployments with Kubernetes for PNC's production applications, resulting in an 87% decrease in failed deployments.
- Integrated a machine learning-based recommendation engine for personalized financial products on the mobile app, boosting user engagement by 26%.

EDUCATION

Carnegie Mellon University - Bachelor of Science, Computer Science

2011 - 2015   Pittsburgh, PA

SKILLS

Apache Spark; Amazon Redshift; Talend; Luigi; Apache Cassandra; Kubernetes; MySQL; XML; Presto; Python