
WORK EXPERIENCE

Data Engineer

Mar 2021 - Present

Home Instead, Inc.

- Responsible for ETL/ELT development using Azure Data Factory, Fivetran, Python, Snowflake, and DBT in support of enterprise data infrastructures – master data, data warehouse, and operational data stores.
- Lead creation of end-to-end ML pipelines using Python, Jupyter Notebooks, and Azure ML stack – production models include Client Retention and Caregiver Churn with over 80% AUC each.
- Participated in design and development of logical, physical, and dimensional data models, business rules and data mapping for the Enterprise Data Warehouse, Data Mart, and staging layer.
- Developed reports, views, stored procedures, and unit tests using Microsoft Bi stack to proactively identify, manage, and correct data quality issues.
- Provides continuous guidance, onboarding, and mentoring to junior team members and contractors.

Database Developer

Nov 2019 – Mar 2021

Vervent Card, Inc.

- Automated numerous daily processes across recovery and analytics departments reducing manual workload by 20 hours per week.
- Designed, developed, and implemented logical and physical data models, ETL pipelines, and job scheduling using SQL Server 2019 and SSIS for the latest client while meeting a strict deadline.
- Used SQL Server to create Stored Procedures, Triggers, Indexes, Tables, and Views to adhere with business rules.
- Collaborated with analytics team to train, develop, and implement ML models as well as perform migration from SAS to Python environment.
- Responsible for design, creation, execution, and monitoring of ETL workflows using AWS stack.

Business Analyst

Aug 2018 – Nov 2019

First Premier Bank-Premier Bankcard

- Utilized SQL Server, SSRS, SSIS, and SSAS to create reports, data visualization, and automated processes supporting credit, risk management, and marketing departments.
- Used SAS/SAS EM and appropriate ML techniques to improve “Pre-Screen” application process resulting in 15k+ new applications per month and a decrease in “First Payment Default” rate by 12%.
- Utilized Python, XGBoost, and Over-Sampling techniques to develop “Fraudulent Transactions Alert” model reducing fraud loss by 54%.
- Developed and implemented “Over the Credit Limit” and “Partial Authorization” analyses resulting in profit increase of more than 6 million annually.
- Provided recommendations for the purchase and utilization of new tools and technologies such as SAS Viya, Prama TransUnion, and Microsoft Azure to satisfy overall business needs.

PROFESSIONAL SKILLS

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| • Python, R, C++, T-SQL, PL/SQL | • Pandas, NumPy, SciPy, Scikit-Learn, TensorFlow |
| • SSMS, SSIS, SSRS, SSAS | • Snowflake, Redshift, Google BigQuery |
| • Azure Data Factory, Fivetran, DBT | • Tableau, Power BI, Qlik, Salesforce |

EDUCATION

M.S. Computer Science. Dakota State University.

M.S. Data Science. South Dakota State University.

B.S. Mathematics. South Dakota State University.