

Adam Klaus

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EXPERIENCE

Data Engineer III | Grainger

October 2021 – Present | Chicago, IL

- Built a data platform for the project management office to enable senior leadership to have insights into thousands of projects, time reporting and people analytics
- Developed ELT data pipelines to process semi-structured data for six key sources (usually 3rd party APIs) using Python, S3, Snowflake, dbt, Docker, Github Actions, Kubernetes, Airflow and Grafana
- Established a team Snowflake data warehouse integrated with dbt, which includes 100+ views/tables, multiple schema layers, change data capture and business logic
- Deployed a Streamlit app with 170+ users integrated with Okta and Microsoft to provide custom self-service task automations (mass emails, updating data)
- Contribute to internal initiatives such as mentoring a newly hired data engineer, being a recruitment lead for UW-Madison and testing new MLOps solutions

Data Engineer – Associate | Sagence

April 2021 – October 2021 | Chicago, IL

- Designed and developed data pipelines for a university's data platform using Oracle Data Integrator and by working with stakeholders to ensure pipelines will support existing key reports and data science teams needs
- Automated validation that reporting fields existed in university's data platform by generating source to target mappings using Python, Oracle metadata and recursion
- Restructured data platform for telehealth company by analyzing SQL in BigQuery, dbt, GitLab and Looker and designing new data models organized by data domains

Data Engineer (Business Analyst) | NinjaHoldings

November 2020 – April 2021 | Chicago, IL

- Deployed a dynamic ETL data pipeline to monitor features and performance of 60+ Machine Learning models by using Python, Sagemaker, Redshift, Cron, Lambda, S3, and Snowflake to help data science team see model performance over time
- Rationalized existing dashboards used to analyze loan performance by building new dashboards with parameterized filters and views to add flexibility in self-service reporting capabilities using Python and Sisense Periscope

Research Analyst | Human Capital Research Corporation

October 2018 – October 2020 | Evanston, IL

- Presented key findings from data analysis (model prediction, stats, time-series) to senior leadership at colleges and made recommendations on enrollment strategy to improve desired metrics (head count, revenue, academic profile, diversity)
- Introduced Machine Learning to improve modeling accuracy in predicting student enrollment outcomes by building ETL data pipelines with dynamic feature engineering to source college's data using MSSQL, Python and scikit learn
- Developed web applications deployed through our internal company website integrated with PowerPoint, Excel, SPSS, and Qualtrics using python to allow client teams to have self-service tools to generate client deliverables

TOOLS & SKILLS

Languages: Python, SQL, R, Bash, JavaScript, HTML, CSS, VBA

Data: Snowflake, dbt, Postgres, Oracle, Teradata, Redshift, MSSQL, MongoDB

Cloud: AWS, GCP

DevOps: Git (Bitbucket, GitHub), Kubernetes, Docker, Airflow, CI/CD (CircleCI, Github Actions), Grafana, Helm

Analytics: Tableau, Sisense, Looker, Excel

Python: Pandas, Numpy, sklearn, TensorFlow, Keras, BS4, Scipy, NLTK, Spacy, FuzzyWuzzy, Plotly, PySpark

Hadoop: HDFS, Yarn, Hive, Map Reduce, Pig, HBase, Mahout, Spark

Web: Streamlit, Flask, Django, Dash, R Shiny, Jinja

Softwares: ServiceNow, Jira, Confluence, Qualtrics, Tempo

EDUCATION

M.S. Data Science

DePaul University

March 2020 – August 2023

B.B.A. Finance | Technology Management

University of Wisconsin-Madison

Sept 2014 – May 2018

Relevant Courses: Big Data Mining, Advanced Machine Learning, Programming Machine Learning Applications, Advanced Data Analysis, Python Programming, Social Network Analysis

LEADERSHIP & INTERESTS

Leadership: Coach of Northwestern Women's Ultimate Frisbee Team, Statistics Without Borders Analytics Volunteer, Chicago Scholars Interviewer

Interests: Podcasts, Ultimate Frisbee, Piano, Hiking, Cooking, Sports Analytics, Climate Justice