

# Erika Jacobs

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## Summary

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Data professional with over 5 years of experience in data management and cleaning, as well as development and implementation of ETL pipelines. Passion for learning new data-related technologies and solving data production issues.

## Skills

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- **Languages:** Python, SQL, R, HTML, CSS
- **Databases:** SQL Server, MySQL, PostgreSQL, Redshift, Aurora, RDS, DynamoDB, MongoDB
- **Platforms:** AWS (S3, EC2, IAM, CLI, EMR, Glue), Linux, Bash, GCP, Oracle, Microsoft Azure
- **Frameworks:** DataBricks, Spark, Airflow, Hadoop (HDFS, MapReduce, Hive)
- **Tools:** GitHub, R Studio, Access, Excel, Tableau, Visual Studio (SSIS), SPSS, SAS
- **Application:** data modeling, schemas, cloud architecture, data mining, statistics, machine learning, agile/scrum

## Project Experience

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### NASA Data Warehouse

Python (Boto3, Psycopg2, Requests, Pandas), AWS (Redshift, S3)

- Read unstructured weather data from the NASA space weather API. Cleaned and structured data into multiple data frames. Created security role and opened port to connect to Redshift. Staged data in S3 to load to Redshift.

### COVID-19 Dashboard

Python (PySpark, Boto3, S3FS, Dash), AWS (S3), DataBricks

- Designed data pipeline that ingested COVID-19 data from GitHub, transformed data, and aggregated results using Spark SQL. Exported and staged data in S3. Developed and deployed dashboard of case trends per country and state using HTML and CSS.

## Work Experience

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### **Nationwide Insurance Company, January 2017-Present**

**Scottsdale, AZ**

*Business Specialist*

- Developed ETL scripts to extract data and remove macros from hundreds of Excel documents. Cleaned data and changed variable data types to match SQL Server table, and built loop to insert dataframe into SQL Server.
- Manage monthly ETL pipelines for data production, and manage prioritization amongst responsibilities.
- Automate consolidation and merging of datasets, and verify accuracy of processed data sources for reporting.
- Conduct ad-hoc quantitative analyses, build exhibits, and summarize multiple metrics from large and complex datasets using SQL queries.

### **Nationwide Insurance Company, December 2015-January 2017**

**Scottsdale, AZ**

*Senior Analyst, Actuarial Analytics*

- Cleaned and manipulated datasets for analysis and verified accuracy of all data.
- Built SQL tables and views for analysis. Wrote queries to consolidate and combine complex datasets.
- Generated analytical visualizations, with output including tables, metrics, charts and graphs.
- Maintained positive working relationships with leadership clients across different departments.

### **Nationwide Insurance Company, June 2014-December 2015**

**Scottsdale, AZ**

*Senior Analyst, Process Management*

- Completed data analysis of remote workers to eliminate paid services no longer being utilized, resulting in over \$3,000 of expense savings per month.
- Cleaned and maintained integrity of confidential associate data. Created data visualizations for business partners.

## Education

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### **Penn State University**

**University Park, PA**

*Masters in Applied Statistics - 3.76 GPA*

### **Arizona State University**

**Tempe, AZ**

*Bachelor of Arts in Psychology, Theatre*

## Activities and Awards

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- Mathematics Professor through the Maricopa Community Colleges 2019
- Toastmasters Competent Communicator and Competent Leader Awards