

## Technical Skills

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- Skills include: Python (PySpark), SQL Server, MySQL, PostgreSQL, AWS (Redshift, RDS, S3, EC2, IAM, CLI, EMR, Aurora), DataBricks, Tableau, SPSS, SAS, NoSQL, HTML, CSS, VBA, Visual Studio (SSIS), Hadoop (HDFS, MapReduce, Hive), MongoDB, Linux, Airflow, GCP, Microsoft Azure, Oracle, R Studio, GitHub, Minitab, Excel, Access
- Experience in data modeling, schemas, cloud architecture, data mining, statistics, and machine learning.
- Completion of multiple online courses on data engineering, programming, and computer science.

## Project Experience

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### NASA Data Warehouse

*Python (Boto3, Psycopg2, Requests, Pandas)*

- 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, DataBricks, Boto3, S3FS, Dash)*

- 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 details prior to presentation.
- Built SQL tables and views. 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 to better cater analytical work to a variety of business needs.

### Nationwide Insurance Company, May 2014-December 2015

Scottsdale, AZ

*Senior Analyst, Process Management*

- Sole data administrator of alternative work arrangement program for Human Resources.
- Documented and maintained Access database of alternative work arrangements and confidential associate information. Maintained accuracy of all information.
- Provided analytical support to Human Resources and created exhibits for executive leadership.

## 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