

# Lucas Gutknecht

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Iowa

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## TECHNICAL SKILLS

**Languages-** SQL, Python, C #, VBA

**AWS Cloud Services-** Glue, SNS, SQS, Step Functions, Lambda, API Gateway, IAM, EC2, ECS, ECR

**CI/CD-** GitLab/Github

## SUMMARY

### Professional Summary

Accomplished Data Engineer with over 6 years of experience, specializing in data architecture, cloud development, and data engineering solutions. My career began in reporting and evolved into a role as a Database Administrator before transitioning to Data Engineering, where I have developed strong expertise. I began with SSIS as my primary ETL tool, then expanded my skill set by mastering Python, earning a Python Application Specialist certification through DMACC.

In recent years, I have focused on modern Data Engineering practices, including API development and cloud-based solutions. I have significant experience working with AWS, leveraging services such as AWS CDK for cloud formation stacks, creating CI/CD pipelines in Git, and deploying applications to the cloud. Additionally, I have supported data science teams, enhancing my skill set with a Data Scientist certification to further strengthen my contributions.

I am driven to continuously expand my technical expertise and stay ahead of industry trends, seeking opportunities to apply my knowledge in Data Engineering and cloud technologies to solve complex business challenges.

## WORK EXPERIENCE

### Corteva-Data Engineer

May 2022- Current

- Created business application that receives messages from Kafka event messaging services, execute python scripts in AWS Fargate running docker images, write data into RDS database, and expose data via API using API Gateway.
- Implement Data Scientist models in pickle format into ingestion pipeline deployed through AWS ECS.
- Created Python script that multi threads API calls to speed up execution time using AWS Glue.
- Created ETL scripts in TSQL that are orchestrated by Airflow for scheduling
- Used AWS services for data migration, analysis, and transformation such as Glue, SNS, S3, Lambda, and API Gateway
- Created python scripts to make API calls and write response to database.
- Created Data Models used for star schemas in the Data Warehouse using Kimball best practices.
- Manage AWS application roles through IAM using least privileges methodology.

### Principal Financial Group-Data Engineer

January 2021-May

2022

- Help create and maintain AWS Cloud Applications that use Lambda, Glue, SNS, SQS, CloudWatch, VPC and s3
- Create Glue scripts (in Pyspark) to load dataframe, transform data, write to parquet file, and query in Athena
- Write Lambdas and Glue scripts in Python to transfer events for data orchestrated with Boto3 commands

- Create and Maintain CDK templates to deploy AWS resources using Infrastructure as code methodologies

**CDS Global-Data Engineer  
January 2021**

**March 2020-**

- Make API calls using Python to clients or AWS (Boto3), parse JSON response, insert into database
- Convert SSIS to use AWS architecture (S3 files, RDS, AWS CLI)
- Created pyspark script that pulls files from S3, creates dataframes, execute SQL in AWS EMR cluster

**Hy-Vee-Data Engineer**

**September 2019-March 2020**

- Create stored procedures using TSQL/SQL in SSMS to manipulate data for ETL
- Write Python script to make API call to vendor's site that truncates table before sending file to load
- Write Python script to connect to SQL Server, select data into a data frame, export to CSV, and SFTP file
- Create windows form inserts, updates, deletes to database using event driven buttons wrote in C # on .net framework
- Use SSIS to manage/create packages deployed to SSMS through Integration Services Catalogue scheduled on jobs

**Casey's Corporate- Data Engineer  
September 2019**

**January 2019-**

- Create packages in SSIS to transform data and load into the Data Warehouse on Microsoft APS.
- Create stored procedures in the database that are called by SSIS and use dataflow objects to transform the data.
- Schedule jobs in SSIS calling Visual Studio projects to load the Data Warehouse.
- Create ETL processes that are modelled off Kimball's Dimension and Fact ideology including slowly changing dimensions.

**CDS Global- Database Administrator  
2019**

**May 2018-January**

- Migrate SQL Server Database to AWS RDS using AWS Schema Conversion tool and AWS Database Migration
- Set up a 3-node cluster using Amazon EC2 instances and configure the XML files with the correct IP Addresses
- Create stored procedures with SQL automated by scheduled events that scrubs data provided by clients
- Move, Remove, Copy, and schedule jobs with Crontab on Linux using Putty.

**Athene-Product Analyst  
2018**

**May 2016- May**

- Write SQL in an excel worksheet that is passed to an Oracle db to pull rates and product features on annuities.
- Automate system processes that are periodic using VBA in excel to generate values used in sales materials
- Create weekly reports aggregating data highlighting trends that are used for sales analysis in Business Objects
- Create tools in Excel that are form driven written in VBA to calculate values for an annuity based on user inputs.

**Voya Financial-Business Analyst  
2016**

**September 2015-May**

- Migrate Access Queries and Tables into MSSQL 2008 by writing the equivalent SQL
- Create ad hoc reports in MSSQL by aggregating data based off of management requests
- Import tables from multiple data sources used for reporting by finding unique fields creating one to many relationships
- Run and maintain Monthly/Daily reports developed in Access Macros using MSSQL data source

**Sentinel Development Solutions-SQL Developer  
2015**

**March 2015-September**

- Scrub imported Client files through SQL script to insure it conforms to database requirements and constraints
- Map data from source file to columns in the database using an in house import tool that uses grid row mapping of columns
- Run additional SQL scripts to insert additional database data for the new records that were loaded
- Create new SQL Scripts that scrub import files so data can be imported through the ETL tool

**EDUCATION**

**Drake University, Des Moines, IA**

Bachelor of Science in Business Administration

Major: Marketing

Graduation Date: May 2009

**Des Moines Area Community College**

Database Management Specialist

Graduation Date: May 2015

Python Application Developer Certification

Graduation Date: May 2022

Data Science Certification

Graduation Date: May 2024