

# Lielani D. Gatdula

CLOUD DATA ENGINEER | SQL ANALYST

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Highly skilled cloud data engineer | SQL Analyst with 6 years of experience in database design, optimization, maintenance, and cloud database solutions. Certified in AWS Cloud Practitioner and AWS Certified Solutions Architect Associate with hands-on experience in developing and maintaining cloud applications. Skilled in leveraging cloud platforms like AWS, Azure, and Google Cloud for scalable and secure database management. Expertise in SQL and ETL processes. Passionate about enabling data-driven decisions through efficient database solutions and cloud integrations.

## AWARDS

- Business Resiliency & Security Champion (FY24 Q3 Gantimpala Winner)
- Business Resiliency & Security Champion (FY24 Q4 Gantimpala Winner)
- Business Resiliency & Security Champion (ATCP Gantimpala FY24 Annual Winner)

## CERTIFICATES AND ACHIEVEMENTS

- AWS Certified Cloud Practitioner (July 2023)
- AWS Certified Solutions Architect Associate (February 2025)
- Technical facilitator in AWS classroom trainings of Accenture new joiners up to manager level.
- AWS DeepRacer Participant (2023)
- Completed AWS Elevate days
- Completed GenAI training

## HANDS ON EXPERIENCE

### • Ransomware on S3 - Simulation and Detection

**Goal:** Helps understand how to protect your S3 buckets from ransomware attacks. It involves simulating an attack to see how your AWS environment responds and setting up detection mechanisms to catch malicious activities early.

**Services:** CloudFormation, CloudShell, Amazon Athena, CloudTrail, CloudWatch, GuardDuty, S3

### • Cryptominer Based Security Events - Simulation and Detection

**Goal:** Helps simulate and detect scenarios where attackers hijack your cloud infrastructure to mine cryptocurrency.

**Services:** CloudFormation, CloudShell, Amazon Athena, CloudTrail, CloudWatch, GuardDuty, EC2

### • Unauthorized IAM Credential Use - Simulation and Detection

**Goal:** Helps identify and respond to cases where compromised AWS credentials (like access keys) are misused. This is critical because attackers often try to exploit stolen credentials to access and manipulate cloud resources.

**Services:** CloudFormation, CloudShell, Amazon Athena, CloudTrail, CloudWatch, GuardDuty, VPC, Route53, IAM, S3, EC2

### • Serverless Web Application

**Goal:** Build and run static website without managing servers.

**Services:** S3, API Gateway, Lambda, DynamoDB, CloudFront

### • Created Lambda function to stop and start EC2 at a regular intervals

**Goal:** To automate the process of stopping and starting EC2 instances at a regular intervals to reduce cost and save money.

**Services:** AIM, Lambda, EC2, EventBridge

### • Serverless ETL with AWS Glue & S3

**Goal:** Extract data from public APIs, transform it with AWS Glue, and load it into Amazon Redshift.

**Services:** AWS S3, Glue, Redshift, Athena, Python

### • Data Warehouse for E-commerce Analytics

**Goal:** Design a data warehouse to analyze customer behavior, sales trends, and inventory levels.

**Services:** Amazon Redshift, AWS Glue, QuickSight

### • Apache Spark on EMR for Batch Processing

**Goal:** Process massive log files on AWS EMR with Spark, then load results into Redshift for analysis.

**Services:** AWS EMR, Apache Spark, Redshift

### • Azure Synapse for Financial Data Analysis

**Goal:** Ingest financial datasets, build fact/dimension tables, and run analytics in Azure Synapse.

**Services:** Azure Synapse, Data Factory, Power BI

**Created personal portfolio website using HTML, CSS, JavaScript and Github -**

**<https://lani1l.github.io/Lei/>**

**Created the following dashboard using power BI:** product category & count, sales & marketing report, and Supply Chain Management.

**Developed a sales and inventory system for boutique using Vb.Net.**

**Developed an electronic bingo game using Vb.Net**

**Developed personal website using HTML and CSS.**

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## PROFESSIONAL EXPERIENCE

### Accenture

#### Food and Beverage Manufacturer

*Cloud Data Engineer | SQL Analyst*

**February 2020 - Present**

- Performed ETL (Extract, Transform, Load), data backup and recovery using SQL Server to different tables and databases.
- Performed data clean up (removing bad data, Null values, trailing spaces) using SQL queries resulting in a 20% improvement in system responsiveness and speed.
- Investigate, Troubleshoot, and Resolve cloud based application related issues.
- Created dashboarding solutions with QuickSight and Power BI for real-time analytics.
- Proposed improvements and automation to increase application efficiency and reduce incidents by 13%.
- Created SQL scripts, indexes and complex queries for data analysis of RDAs and Regulatory.
- Developed and optimized complex SQL queries to extract, transform, and analyze large datasets, improving report generation time by 30%.
- Reviewed SQL scripts for extracts and data loads of my colleague before they execute live.
- Deployed and maintained data pipelines on AWS, reducing the ETL processing time by 20%.
- Developed and maintained data pipeline, ingesting data across 10 disparate sources using Redshift, S3 and python.

#### Retail store at North America

**June 2019 - December 2019**

*Application Developer Associate*

- Secured data backup including Item inventory, customer profile, sales history, employee record etc. using SQL Server.
- Conducted data extraction, cleaning, and mapping, ensuring smooth and accurate transfer of customer, inventory, and sales data using SQL Server and PowerShell.
- Conducted testing to validate data accuracy, system stability, and functionality across different POS operations.
- Performed end-to-end testing, including sample transactions, inventory updates, and reporting, to ensure the system works as expected.
- Oversaw the cutover process, switching from the old POS system to the new one during non-peak hours to minimize disruption.
- Provided remote support during the initial go-live phase to resolve any immediate issues that arise. Monitored system performance and user feedback closely, making adjustments as necessary.

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## SKILLS

**Cloud Platforms:** Amazon Web Services (AWS), Microsoft Azure(basic), Google cloud(basic)

**Cloud Services:** AWS EC2, S3, Lambda, RDS, IAM, Amazon Athena, CloudShell

**Programming Languages:** Python, .Net, HTML, CSS, C++

**Database Management:** DynamoDB, SQL Server

**DevOps Basics:** AWS CodePipeline, CodeBuild, Git

**Automation:** CloudFormation, Terraform (basic)

**APIs:** RESTful APIs, AWS API Gateway

**Monitoring & Security:** IAM, Security Groups, CloudTrail, CloudWatch

**ETL Tools:** SSIS, AWS Glue

**Data Visualization:** Tableau(basic), Power BI, Quicksight

**Database backup and Recovery**

**Power BI Reporting and Analytics**

**Knowledge in Reinvent Learning**

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## EDUCATION

### Bachelor of Science in Computer Engineering

Bulacan State University (Main Campus)

2013 - 2018