Gabriela Morales

DATA ENGINEER

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PROFILE SUMMARY

Dedicated Data Engineer with two years at Capgemini and a Bachelor's degree in Information Science and Technology from the University of South Carolina Beaufort. I bring a diverse skill set in various programming languages, industry tools, and cloud systems. My professional journey is marked by a strong focus on data quality migrations, backed by effective communication skills, and grounded in both academic knowledge and hands-on experience.

SKILLS

Professional Skills: Data Cleaning and Visualization | Analytical Problem Solving | Strategic Planning | Detail Oriented | Interpersonal Skills | Transparent Communication | Presentation Skills

Technical Skills : Python | SQL | React | JavaScript | HTML | Command Line - Windows | AWS | GitHub | DAML

CERTIFICATIONS

- DAML Fundamentals Certification – Associates | January 2024
- AWS Certified Cloud Practitioner – Foundational | September 2022
- AWS Solution Architect – Associates | December 2022

WORK EXPERIENCE

Data Analyst and Python Developer – Capgemini, BNYM
May'23 – Jan'24

- Developed Python scripts to parse SQL statements and extract relevant information.
- Leveraged Collibra Data Quality (DQ) and Informatica Data Quality (IDQ) tools for data and quality assurance.
- Created functions for substring extraction, string manipulation, and data transformation.
- Utilized pandas and SQL knowledge to process and analyze data efficiently.
- Troubleshoot and optimize SQL code.
- Worked with SQL Server Management Studio (SSMS) databases to extract data.
- Demonstrated proficiency in handling CSV files for data manipulation using Python.
- Transformations and Parsing using Pandas. Python, SQL
- Designed functions for parsing SQL expressions and handling data transformations.
- Utilized Python libraries for data visualization, enhancing the presentation of transformation relations.
- Designed intuitive visuals to represent complex data transformation processes.
- Effectively identified and resolved errors and issues in Python code.

AWS Environment Configuration - Capgemini, Protegrity ESA
Jan'23 - April '23

- Led the installation and configuration of the Protegrity Enterprise Security Application/Administrator (ESA) within an AWS environment, focusing on cost-efficiency and minimal performance impact for a small team usage.
- Guided the build of an ESX host matching specific requirements (8-core processor, 32GB RAM, 320GB Disk, Network Interface Card) and recommended a t2.xlarge AWS EC2 instance for optimal balance between performance and cost.
- Provided continuous support and basic troubleshooting for various system issues.
- Managed critical tasks like adding new users and executing emergency restarts of the system during unforeseen events, ensuring smooth operation and minimal downtime.

Data Engineer - Capgemini, Vanguard
May'22 - Dec'22

- Designed data pipelines for handling a wide range of data sets containing customers queries and responses and created Power BI reports to further analyze and clean the data sets.
- Work with the scrum manager on project coordination and planning, demonstrating strong organizational abilities. Worked effectively as part of a collaborative Scrum team to deliver user stories on schedule.

ITSS Student Helpdesk Technician
Mar'20 - Dec'22
- Expertly managed and resolved Tier 1 system-related issues spanning USCB campuses.
- Streamlined task prioritization through comprehensive utilization of a ticketing system.
- Effectively documented actions and communications, ensuring meticulous tracking and efficient time management.

Intern: USCB & The Children Center
Jun'21 - Aug'21
- Understanding of data security and privacy regulations such as GDPR, CCPA, and HIPAA, and implementing appropriate measures to ensure compliance.
- Conducted a comprehensive review of data compliance regulations and their implications.
- Elevated data design and reporting capabilities, affecting bilingual reporting functionality.
- Thrived within a remote seven-person development team, leveraging MS Teams and Trello for seamless collaboration.
- Utilize SQL and Excel to manipulate and analyze large datasets.
- Defined data ownership, roles, and responsibilities to ensure accountability and transparency.
- Pioneered improvements in customer/user experience (CX/UX), contributing to ongoing enhancements.

HIGHER EDUCATION

Bachelor of Science in Information Science and Technology – University of South Carolina Beaufort | December 2022

INDEPENDENT PROJECTS

Interactive Business Front-End Web Development | Current - In Progress
- Developed a dynamic and user-friendly front-end for a heating and cooling business website, aiming to enhance user experience and business-client interaction. The project featured an interactive Google Maps iframe, a responsive design layout using CSS Flexbox and Grid, and a customer review showcase linked to Google My Business.
- Integrated a contact form using the email-js API, enabling customers to send emails directly to the business, further facilitating efficient communication and engagement.

DAML Inventory Management DApp Model – Blockchain, Digital Assets | December 2023
- Designed and implemented Daml smart contracts for products, orders, and suppliers, showcasing strong proficiency in Daml, a domain-specific language for smart contracts.
- Established a robust permission system with parties and roles, allowing suppliers to efficiently manage product stocks and prices, while enabling customers to place and monitor orders.
- Successfully integrated Daml with the Navigator tool for contract visualization and transaction monitoring.

DAML Sports Betting DApp Model – Blockchain, Digital Assets | Spring 2023
- Developed a sophisticated sports betting model utilizing DAML (Digital Asset Modeling Language) to facilitate secure and transparent betting processes.
- Deployed DAML smart contracts to establish trust and enforce agreements between bettors, ensuring immutable and tamper-proof records of bets and outcomes.
- Created front end using React that can communicate to the ETH network by connecting through a Metamask wallet, authenticating new users through their unique wallet ID.

Database System Management: Design Project – Student Research Day | Fall 2020
- Led a team of 5 in scrum fashion in designing and implementing a mock data governance framework for a fictional organization.
- Conceptualized, executed, and populated a prototype relational database (ERD) using lucidchart.
- Proficiently harnessed SQL server and SQL/T SQL languages, working within SSMS.

PUBLISHED/PRESENTER

Presented and Published at the American Society for Engineering Education | November 2022

Iterative Development of an IT Solution Supporting Early Learning Standards Language Modifications Impacts on Early Learning Standards

https://peer.asee.org/work-in-progress-iterative-development-of-an-it-solution-supporting-early-learning-standards