

MARICIA ALLEMAN

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Professional Summary

Director of District Data Analytics and Computer Scientist with experience designing scalable reporting systems, automation workflows, SQL databases, and enterprise analytics solutions. Background includes software development, IT leadership, data governance, and process automation using SQL Server, Power BI, Python, and cloud-based technologies. Focused on building reliable systems that reduce manual work and transform complex data into actionable decision tools.

Technical Skills

- Data & Analytics: SQL Server, Power BI, DAX, Power Query, Snowflake, ETL/ELT, Data Modeling, Reporting Automation, Data Governance
- Programming & Development: Python, C#, HTML, CSS, JavaScript, Git, APIs
- Platforms & Tools: Power Automate, Focus SIS, ODS, TestHound, Student Analytics Lab, Microsoft 365, Unity

Experience

Director of District Data Analytics | ECISD | 2023–Present

- Lead district-wide enterprise data strategy and operational reporting initiatives.
- Administer SQL Server databases, ETL workflows, and Power BI reporting systems.
- Develop automation tools using Python, SQL Server, and Power Automate.
- Build accountability and assessment reporting systems aligned with TEA requirements.
- Design repeatable reporting pipelines integrating Focus SIS and assessment data.

Chief Technology & Information Security Officer | ENMU-Ruidoso | 2021–2023

- Led technology infrastructure and information security initiatives.
- Managed technology planning, budgeting, and operational systems.
- Developed policies and aligned technology with institutional goals.

System Analyst II | University of Texas Permian Basin | 2014–2020

- Maintained and enhanced enterprise data warehouse environments.
- Designed ETL packages using SQL Server and Visual Studio.
- Built reporting systems using SSRS, Power BI, and SharePoint.

Projects

SDR Sorter

Built a Python application that extracts and categorizes testing files from ZIP archives.

Snowflake Data Cleaning Project

Cleaned and standardized customer datasets using SQL transformations and reusable views.

A–F Accountability Dashboard

Built multi-year Power BI models supporting district accountability reporting.

Education

Master of Science in Computer Science | University of Texas Permian Basin | 2019

Bachelor of Science in Computer Science | University of Texas Permian Basin | 2006