Solomon Panduga

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EDUCATION

University at Buffalo, SUNY   Buffalo, NY
Master of Science in Computer Science   *Aug. 2022 – Feb 2024*

Karunya University   Tamil Nadu, India
Bachelor of Science in Computer Science,   *Aug. 2016 – May 2020*

EXPERIENCE

Software Engineer (Data Warehousing for EMR Data)   Nov 2020 – July 2022
Accenture   *Hyderabad, India*

- Adept at building impactful data engineering solutions on the cloud, prioritizing business and customer needs.
- Designed and implemented streamlined data pipelines and solutions leveraging the power of Azure cloud infrastructure. Streamlined the customer data onboarding process through meticulous cleaning, modeling, and integration with the pipelines.
- Developed a comprehensive suite of ETL pipelines utilizing SQL, Spark, Databricks, Snowflake, Airflow, and DBT for efficient data extraction, transformation, and loading. Terraform for infrastructure creation and management.
- Engineered real-time and batch streaming pipelines using Kafka, MongoDB, and Azure Stream Analytics to effectively manage high-velocity data streams. Creating dashboards for data trends, patterns, and insights in Tableau and Power BI
- Initiated the development and application of customized analytical algorithms within Databricks and Snowflake, successfully addressing complex challenges in EMR data analysis. This resulted in improved risk evaluation and medication management practices.
- Sucessfully led the migration and upgrade of legacy SSIS projects to Azure Databricks, achieving a significant 90% improvement in Spark query performance by fine-tuning and optimizing for terabyte-scale data processing and real-time data handling.

CERTIFICATIONS

Databricks Certified Data Engineering Associate - Verification
Azure Data Fundamentals - DP 900 - Verification
DBT Fundamentals - Verification

PROJECTS | *(more at - pevsr.com/posts)*

Earthquake Events - Data Engineering Project | *DBT, Snowflake, Azure ADF, SQL, Tableau*
- Utilized DBT for transformations, Snowflake for data warehousing, Azure ADF for automated data ingestion, and Tableau for visualization. Implemented Change Data Capture (CDC) in DBT for scheduled transforms and upserts to Snowflake, enabling the creation of a dynamic Tableau dashboard for comprehensive data insights.
  View dashboard

Buffalo Housing Realty - Data Engineering Project | *Databricks, Web Scraping, Azure blob, Azure SQL, Tableau*
- A comprehensive Data Engineering project employing Databricks, Azure Blob Storage, Azure SQL Database, and Tableau. Utilized web scraping techniques to extract realty data from Zillow, Redfin, and Realty.com, followed by cleaning, transformation and ingestion by Databricks. Tableau for dynamic dashboard updates, seamlessly integrating with the processed data   View dashboard

Social Media NFT Dapp | *Full stack, React, Blockchain*
- Developed a decentralized social media application for uploading and sharing photos using ReactJS, Javascript, Hardhat, and nft.storage. Implemented NFT creation for each uploaded image, with the application detecting duplicate images on the platform using bit comparison. Utilizing this to adjust the NFT value based on the uniqueness of the image, allowing for appreciation or depreciation over time.   - View web app

TECHNICAL SKILLS

Languages: Python, C/C++, SQL, NoSQL JavaScript, HTML/CSS, Shell Script
Frameworks: Databricks, Spark, DBT, Snowflake, Tableau, Azure cloud, Airflow, SSIS, AI/ML, PowerBI, MongoDB, Google collab, Tensorflow, Open AI, Langchain, React, Node.js
Developer Tools: Git, Docker, Terraform, Azure Cloud, AWS, VS Code, Visual Studio, Jupyter Notebook