David Nady

Data Engineer | BI Engineer

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EDUCATION

Minya University   Egypt, Minia
Bachelor of Science in Computer Science   *Aug. 2021 – Jun. 2025*

Relevant Coursework: Database Design, Information Retrieval, File Processing, Algorithms, Data Structures, Operating Systems, Data Analysis, Software Engineering

EXPERIENCE

Python Developer (Professional Training)   Jul 2024 – Aug 2024
information technology institute (ITI)   *Egypt, Minia*
- Designed and built data pipelines from scratch using Python and SQL, optimizing data workflows and ensuring high data quality and reliability.
- Created and maintained advanced SQL queries for extracting, cleaning, and analyzing large datasets, which significantly improved data processing speed and accuracy.
- Designed a robust data model that ensured data consistency and met business requirements, enabling rapid data retrieval and supporting strategic decision-making.
- Earned the highest accolade with a perfect 100% score by consistently maintaining exemplary discipline, and demonstrating outstanding dedication and learning aptitude.

PROJECTS

Softcart Data Warehouse | *dbt, Snowflake, MongoDB, MySQL, Spark, Airflow*   Jul 2024
- Engineered and implemented robust ETL pipelines to efficiently synchronize and process data across transactional, NoSQL, and data warehousing systems, achieving a 50% reduction in data processing time.
- Designed and developed a PostgreSQL staging warehouse, seamlessly transitioning data to Snowflake for comprehensive reporting and analytics.
- Leveraged Hadoop and Spark for advanced big data analytics, significantly enhancing sales forecasting accuracy and enabling data-driven decision-making.

Uber ETL Data Pipeline | *Snowflake, PostgreSQL, Python, Mage, and Looker Studio*   Apr 2024
- Architected and deployed a sophisticated data model that ensured high levels of data consistency and significantly optimized query performance, resulting in faster data retrieval times.
- Spearheaded the development of an advanced ETL pipeline using MAGE, boosting data integration efficiency by 35% and ensuring seamless data flow across systems.
- Orchestrated the consolidation and migration of disparate data sources from multiple CSV files, effectively reducing data redundancy by 20% and streamlining the data architecture.
- Engineered a comprehensive and dynamic dashboard with Looker Studio, enabling in-depth data analysis and providing actionable insights through interactive visualizations and real-time data updates.

E-commerce DWH | *Python, SQL, Docker, Mage, Snowflake, Postgres, and Power BI*   Mar 2024
- Aggregated and integrated multiple CSV datasets from Kaggle, enhancing data coverage by 30% and providing a richer dataset for analysis.
- Executed comprehensive ETL (Extract, Transform, Load) processes using MAGE, effectively preparing and cleaning data for advanced analytics.
- Architected and deployed a scalable data warehouse leveraging Snowflake and PostgreSQL, ensuring efficient data management and retrieval.
- Developed an insightful and interactive dashboard with Power BI to visualize key metrics and performance indicators, driving data-driven decision-making.

TECHNICAL SKILLS

Languages: Python, Java, C#/C++, SQL (Postgres), R
Databases & Data Warehousing: PostgreSQL, MySQL, MS SQL Server, MongoDB, Snowflake
Cloud: AWS (S3, RDS, Redshift, Glue), GCP (Google Cloud Storage, Cloud SQL, BigQuery Dataflow)
Developer Tools: Git, Github Actions, Docker, Google Cloud Platform, VS Code, Visual Studio, Jupyter Notebook
Libraries: Apache Airflow, PySpark, pandas, NumPy, SQLAlchemy, Beautiful Soup, Selenium