

EDDIE HO

Data Warehouse Engineer | Data Analytics | Cloud Solutions

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SUMMARY

With 1+ years of experience as a data warehouse engineer, I bring extensive expertise in data modeling, cloud data solutions, and analytics tools such as SQL, Snowflake, and PowerBI. My contributions have substantively improved operational efficiencies and informed strategic business decisions, evidenced by a marked increase in productivity and profitability.

EDUCATION

Bachelor of Science in Data Science

University of California, San Diego

09/2021 - 03/2024 San Diego, CA

EXPERIENCE

Data Warehouse Engineer

LESSO

05/2024 - Present Los Angeles, CA

- Led the migration of on-premises legacy data systems to cloud-based warehouses, achieving a 40% reduction in operational costs while improving data retrieval times by 70%.
- Spearheaded the integration of Snowflake cloud data warehouse which enhanced data analytics and reporting capabilities for cross-functional teams, supporting an increase in data-driven decision-making.
- Implemented a new E-R modeling system for efficient database structuring that streamlined data flow and reduced redundancy, resulting in a 25% increase in productivity for the data analytics team.
- Designed and maintained over 20 data marts, enabling tailored data views which facilitated user-specific analysis, greatly enhancing the usability of data resources organization-wide.
- Automated the extraction, transformation, and load processes (ETL) using Python and SQL, leading to a 50% reduction in the time required to prepare data for analysis.
- Developed a comprehensive reporting system using PowerBI and Tableau that provided actionable insights into customer behavior, driving a 15% increase in targeted marketing campaign success.

Data Warehouse Specialist

UC San Diego

09/2023 - 03/2024 San Diego, CA

- Optimized the performance of data warehouses by implementing indexing strategies and query optimizations that resulted in a 30% improvement in data processing speeds.
- Collaborated with cross-functional teams to translate business requirements into technical data solutions, aiding in the launch of three major product lines.
- Managed the lifecycle of big data solutions, including building and maintaining NoSQL databases such as Cosmos and Bigtable, which handled over 40 TB of data.
- Devised data validation protocols and error identification mechanisms to ensure a 99.9% accuracy rate in data reporting.
- Initiated and led the deployment of an automated data quality system that reduced manual error correction by 75%, significantly increasing data reliability for end-users.

Azure Data Engineer Intern

Avanade

06/2023 - 09/2023 Los Angeles, CA

- Contributed to the design and development of a multi-terabyte data warehouse that consolidated data across different departments, facilitating a holistic view of the business.
- Enhanced ETL workflows which reduced the data processing window by 4 hours, enabling more timely data availability for analysis.
- Collaborated with cross-functional teams on 2 major projects, leading to a 16% increase in project delivery speed.
- Conducted in-depth analyses of market trends and customer data that contributed to a strategic shift in sales focus, increasing revenue by 10%.

PROJECTS

Real-time Demand Forecasting Model

github.com/noodleslove/DemandForecastingModel

Built scalable demand forecasting pipeline using PySpark, optimizing distributed Random Forest processing for real-time predictions with minimal latency.

Data Wrangling with PySpark

github.com/noodleslove/DataWranglingPyspark

Created an extensible data wrangling pipeline to standardize data transformation tasks across various projects, improving code reusability.

KEY ACHIEVEMENTS



Optimized Data Retrieval

Revolutionized the data extraction process, specifically by optimizing query strategies, which reduced data retrieval times by 70%.



Reduction in Operational Costs

Played a key role in infrastructure migration that led to a significant 40% reduction in operational costs.



Automation of Data Processes

Successfully automated ETL processes, resulting in a 50% reduction in data preparation time.



Innovative Reporting System

Developed a comprehensive reporting system to provide actionable insights, increasing marketing campaign success by 15%.

SKILLS

Hard Skills

SQL, Python, Big Data Technologies (Hadoop, Spark, Kafka), Relational Databases (PostgreSQL, MySQL), NoSQL Databases (MongoDB, Cassandra, Neo4j), Data Warehousing Solutions (Redshift, BigQuery), Data Integration Tools (Talend, Informatica), Workflow Orchestration (Apache Airflow, Prefect), Data Warehousing, Data Modeling, ERWin, Snowflake, Redshift

Soft Skills

Communication, Teamwork, Time Management, Problem-Solving, Fast Learner, Continuous Learning

COURSES

Certified Azure Data Engineer Associate

Gained expertise in Azure cloud data platform, focused on architecture, data loading, and performance tuning. Course by Microsoft Inc.

Advanced SQL for Data Scientists

Enhanced SQL querying skills, focusing on complex data analysis techniques. Course by DataCamp.