Architecture

Modern Case Study

Global Design and Architecture Firm Optimizes Space Utilization Data using Modern Data's DataOS

Industry

Architecture

Headquarters

San Francisco, CA

Objective

Create better customer designs and optimize space utilization using data.

DataOS Key Benefits

- Created a holistic and unified view of customer's data.
- Explored and understood data better with data dictionary and data lineage.
- Syndicated data to various destinations in a secure fashion.
- Customer realized a 17% increase in sales year over year.

TheModern DataCompany

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The Customer

Our customer is a global design and architecture firm and one of the largest revenue generators in the field. Their mission is to create a better world through the power of design.

The Challenge

Our customer struggled to collect and deliver data—both to build digital simulations for their architecture projects and to understand how interior spaces were being used so that space could be optimized. Internal teams attempted an in-house solution using Databricks and Azure data products, but a lack of specialized skills meant many false starts. After more than a year, the data team still could not deliver the necessary data.

A Unified View of Complex Data

We completed an end-to-end deployment of DataOS on the customer's cloud within four weeks—faster than any other data management platform on the market. With the data catalog, data discovery and governance tools in DataOS, the customer was able to ingest and integrate data from smart sensors and internal datasets. DataOS helped our customer create a unified view of their data and made this data readily available to power their analytics and building information modeling.

Key Results

- Data ingestion from 30+ data sources 52% faster.
- Data discovery 3.4x faster through Datanet.
- Secure data syndication to 5+ data destinations.

The Benefits

DataOS helped the customer reduce time in collecting and understanding data from multiple and varied sources, speeding up data analysis. Their business teams are able to focus on data insights and also syndicate data-to-data destinations without worrying about data security. Better data means they can improve the architectural simulations that help them explain their ideas to customers, boosting sales.

How the Customer Used DataOS

DataOS simultaneously ingested data from various sensors and IoT devices to create a unified view of data. This unified view included its dictionary, enabling the customer to track the entire lineage of data from origin to destination. Our customer was able run their first real-world deployment of these sensors after a year of fruitless work with other data products. With their newly empowered simulations, they were able to demonstrate these capabilities to their customers, winning new business for the company.

The Modern Solution

Deployment of DataOS in our customer's environment made it easy for them to connect to multiple data sources (including sensors, IoT devices, and internal datasets) and ingest data from them simultaneously.

- Datanet, part of DataOS, is a modern data catalog that creates a single source of data and presents a unified view of all the data across the enterprise. Data pipelines from multiple sources can be defined within minutes using simple, declarative YAML files, then deployed using DataOS Cluster APIs. Datanet also presents a simple google-like semantic search capability, to help users find the dataset of their choice within seconds. This makes data discovery easier than ever.

- Data syndication is simplified with the advanced governance engine that comes with DataOS. Customers can set attribute-based access control that uses tags and conditions to define data security policies. Once these security policies are set, customers can share these datasets to any external entities for further analysis and insights.

About DataOS®

DataOS is an operating system that consists of a set of primitives, services and modules that are interoperable and composable. These building blocks enable organizations to compose various data architectures and dramatically reduce integrations. Enterprises can have the same data-driven decision-making experience akin to data-first tech companies in days and weeks instead of months and years.

About The Modern Data Company

Founded in 2018, The Modern Data Company began with the realization that enterprise-wide data access has been siloed. Data engineers and database administrators have been the longstanding data gatekeepers who funneled data to analysts and data scientists. We aim to change that by freeing enterprises to make better data driven decisions by democratizing access to data. When all employees, irrespective of their technical skills or background, can easily explore and analyze enterprise data, then both productivity and market expansion are realized at a faster pace.

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