

# DATA TRANSFORMATION

## POWERED BY CLOUD

### A MODERN DATA ENGINEERING STACK IS ESSENTIAL

In the ever-evolving landscape of the financial industry, the challenges of data engineering are abundant. The need for **precision, security, governance, and scalability** has never been more critical. Financial institutions are grappling with vast volumes of data, stringent regulatory requirements, and a demand for real-time insights.

### YOUR TRUSTED DATA PARTNER

We specialize in data engineering solutions tailored to the exacting standards of the financial industry. With a strong focus on cloud solutions such as Azure and AWS, we offer expertise across a range of data engineering technology stacks.



WE EQUIP OUR CLIENTS WITH PROVEN TEAMS WITH YEARS OF EXPERIENCE WORKING TOGETHER, ENSURING STATE-OF-THE-ART DATA SOLUTIONS THAT DRIVE EFFICIENCY AND INNOVATION – FROM ARCHITECTURE, TO IMPLEMENTATION, TO MAINTENANCE & SUPPORT.

**EXPERIENCED TEAMS**  
PROVEN TALENT



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# APPROACH **THE JOURNEY: DATA TRANSFORMATION IN 5 STEPS**

**1.**

## **PRECISE INDUSTRY NEEDS ASSESSMENT**

A meticulous evaluation of specific financial industry requirements sets the foundation, aligning project objectives with industry compliance standards.

## **CLOUD-CENTRIC INFRASTRUCTURE DESIGN**

Strategically leverage a cloud provider to efficiently gather financial data, constructing cloud infrastructure that complies with industry-specific regulations.

**2.**

**3.**

## **ACCURATE DATA PROCESSING STACK**

Ensure the precise and secure processing of financial data, utilizing appropriate technology stacks to derive actionable insights crucial for financial decision-making

## **SECURE DATA MANAGEMENT**

Implement compliant cloud-based storage and conduct comprehensive data analysis to provide secure and insightful solutions for informed financial decisions.

**4.**

**5.**

## **OPTIMIZATION AND CONTINUOUS IMPROVEMENT**

Optimize for scalability and efficiency, ensuring seamless deployment and iteratively enhancing the solution to meet evolving financial industry requirements effectively.



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# VALUE ADD **DATA TRANSFORMATION EXCELLENCE WITH PETABLOC**

## **FINANCIAL EXPERTISE**

Our team is comprised of experts well-versed in the intricate data demands of the financial world.

## **DATA ENGINEERING PROWESS**

With years of experience, we excel in designing, deploying, and managing data engineering solutions that drive value.

## **CLOUD-CENTRIC APPROACH**

Our approach is designed to harness the power of cloud computing, leveraging cutting-edge capabilities to unlock the full potential of your financial data.

## **DATA GOVERNANCE**

Ensuring data ownership and auditory access is well-managed is essential, and our solutions are built with this in mind.

## **REAL-TIME INSIGHTS**

In the fast-paced financial industry, timing is everything. We enable real-time data processing to facilitate quicker, more informed decisions.

## **ROBUST SECURITY**

Financial data demands the highest level of security. Our measures are designed to protect your data at every stage of its journey.

## **REGULATORY COMPLIANCE**

Compliance with industry regulations such as GLBA, SOX, FFIEC and OSFI is non-negotiable. We implement solutions that ensure your data is always in line with these standards.



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SPOTLIGHT **DATA  
TRANSFORMATION  
SUCCESS STORIES**

**LENDINGCLUB**  
SNOWFLAKE



Multi-year Snowflake project at LendingClub successfully transitioned from proof-of-concept to organization-wide usage. We established Snowflake accounts using Terraform, implemented SSO, enabling real-time access to data engineers and business analysts. Business teams no longer needed support from tech teams.

AWS | SNOWFLAKE  
TERRAFORM | SSO

**RECKITT BENCKISER**  
DATABRICKS



We deployed RB's Azure-based Enterprise Data Analytics Platform (EDAP) data lake, featuring robust CI/CD and Disaster Recovery capabilities. This empowered pharmaceutical data engineers to effectively evaluate medication performance. Our stack included Azure Synapse Warehouse, Azure Databricks, and Azure Analytics Services.

AZURE | DATABRICKS  
TERRAFORM | TALEND



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SPOTLIGHT **DATA  
TRANSFORMATION  
SUCCESS STORIES**

**FORD MOTORS  
DATABRICKS**



Databricks ingestion and transformation platform, consuming roughly 1TB of IoT data daily. Transformed data was injected into a BI platform, allowing business users to use a geo-enabled reporting front end to view status of self-driving cars around the United States within minutes of receiving data transmitted in field.

AWS | RDS | DATABRICKS  
LAMBDA | KINESIS

**SIRONA MEDICAL  
MACHINE LEARNING**



Using deep computer learning models against medical images, we created a ML pipeline to identify patients' symptoms based on output of combined analysis of images, text, and voice. The solution utilized Python-based machine learning paired with large-scale cloud storage and an orchestrated compute platform.

AWS | REACT | CIRCLECI  
TERRAFORM | DJANGO | JENKINS



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# LEADERSHIP & TALENT



**DAVID PETERKA**  
CO-FOUNDER & CTO



**JON BLOCK**  
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**YINGBIN ZHANG**  
PRINCIPAL ARCHITECT



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