



ABDULLAH KASSAS

Lead Data Architect & Engineer

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Key Competencies

- Data Architecture
- Data Engineering
- Data Strategy
- Data Governance
- Cloud Infrastructure
- Business intelligence
- DevOps
- MLOps

Experience

Gore Mutual Insurance

Feb 2024 – Present

Lead Data Engineer

Toronto, Canada

- Architected a modern data platform leveraging Databricks lakehouse architecture and Azure data services (ADF, SQL Server, ADLS, Event Hubs) to enable InsurTech data products and AI models.
- Developed reliable data pipelines using PySpark for data ingestion, transformation, and modeling, based on the medallion architecture, with enforcement of data quality and adherence to data engineering best practices.
- Designed and implemented full automation of the data platform's CI/CD build, release, testing and production deployment cycles, significantly reducing time-to-insight by 30% and minimizing human error.
- Led agile project management for data deliverables, mentoring a team of junior data engineers while orchestrating sprints, scrums, retrospectives, backlog grooming, and sprint planning to ensure timely product releases.

Avenue One

Dec 2022 – Nov 2023

Senior Data Engineer

New York, USA (Remote)

- Established a comprehensive process mining framework and strategy and implemented a technical solution that enabled data-driven decision-making and operational efficiency improvements of key real-estate processes.
- Collaborated with Six Sigma experts to optimize and enhance multiple real estate processes driven by data analytics.
- Created a series of BI dashboards to monitor and visualize key performance indicators (KPIs) of the investment platform and marketplace, incorporating alerts when thresholds are exceeded.
- Spearheaded a data analysis initiative to identify root causes of inefficiencies in homes renovation costs, resulting in targeted enhancements that improved house valuation model accuracy by 25% and more than \$1M of savings.

BizzyCar

Feb 2022 – Nov 2022

Founding Data Engineer

St Louis, USA (Remote)

- Engineered a modern end-to-end cloud data solution and data analytics architecture from the ground up on AWS.
- Built ETL/ELT pipelines to extract data from multiple SaaS apps and APIs into a central data lake & data warehouse.
- Created Reverse ETL pipelines to update HubSpot CRM and Slack with key business metrics, saving 100s of hours.
- Developed BI dashboards for executive leadership to track key SaaS metrics (MRR, ARR, LTV, CAC, Cohort Analysis) and generate quarterly and annual investors and board reports.

FGF Brands

Jun 2021 – Feb 2022

Senior BI Developer

Toronto, Canada

- Managed and optimized the company data marts, data models and the enterprise data warehouse.
- Created impactful operational reports and visualization dashboards for Supply Chain and Finance departments.
- Engineered ETL/ELT pipelines to process IoT data coming from sensors, cameras and manufacturing systems to automate monitoring factory production lines, reducing manual inspection by more than 50%.
- Architected a modern cloud-based data warehouse and data lake solution for the company on Microsoft Azure.

Tamkeen Technologies

Aug 2019 – May 2021

Senior BI Specialist

Riyadh, Saudi Arabia

- Developed a data product to parse and transform data from log files generated by 7 security tools and developed analytical dashboards to visualize the insights, built with Python, Spark and Unix.
- Designed a data warehouse for the internal Odoo ERP system for : HR, Procurement and Finance departments, which allowed monitoring of several business processes and transactions.
- Built and automated dashboards and operational reports for the company executives that saved 100s of hours.
- Oversaw a number of data warehouses related to governmental national products serving millions of users.

SABIC (Saudi Basic Industries Corporation)

Oct 2011 – Jul 2019

Senior Data Consultant

Riyadh, Saudi Arabia

- Implemented business process mining using Celonis for key workflows including order-to-cash and procure-to-pay, enhancing operational visibility and efficiency of SABIC's operations.
- Delivered over 20 analytical dashboards focusing on master data, order fulfillment, and order-to-cash measures, significantly improving the supply chain center of excellence team performance.
- Developed a monitoring dashboard that improved shipment delivery accuracy by 25% and substantially elevated customer satisfaction levels (NPS score).
- Increased SABIC's B2B E-Commerce platform usage from 20% to 80% within one year by analyzing usage data and managing the delivery of tens of data-driven features.
- Led a data migration project, transforming and transferring data from legacy systems into a centralized SAP ERP platform as part of a global business transformation program.
- Created dozens of data quality monitoring and reconciliation dashboards to monitor the consolidation of data from several legacy systems, ensuring data integrity throughout the migration process.
- Led the implementation of SABIC's first comprehensive data governance & data quality program, covering Finance, HR, and Manufacturing domains. Scope included data profiling, rules management, quality scorecards, business data glossary and lineage & impact analysis following the DAMA framework.

Saudi Aramco

Jun 2011 – Sep 2011

Software Engineer

Dhahran, Saudi Arabia

- Developed ESRI map-based software solutions for the eMap division, integrating business data to optimize workflows and decision-making, and conducted data analysis on geolocation and maps data.

Education

King Abdullah University of Science and Technology (KAUST)

Aug 2010 – Sep 2011

M.Sc in Computer Science (Data Mining & AI) (Scholarship Award)

Thuwal, Saudi Arabia

King Fahd University of Petroleum and Minerals (KFUPM)

Feb 2006 – Aug 2010

B.Sc in Computer Engineering (Honors)

Dhahran, Saudi Arabia

Texas A&M University

Aug 2008 – Dec 2008

Student Exchange Program, Computer Engineering

Texas, USA

Certificates

GCP | Google Cloud Professional Data Engineer, Google

Dec 2024

CBIP | Certified Business Intelligence Professional, TDWI

Oct 2020

CDMP | Certified Data Management Professional, DAMA

Nov 2019

TOGAF | Enterprise Architecture, The Open Group

Mar 2020

PMP | Project Management Professional, PMI

Jul 2020

ITIL | Information Technology Infrastructure Library, Axelos

May 2017

Tableau | Certified Tableau Desktop Specialist

Aug 2020

DA-100 | Analyzing Data with Microsoft Power BI, Microsoft

Jul 2021

Technical Skills

Data Platforms & Warehousing: Redshift, Snowflake, Databricks, SAP HANA, PostgreSQL, SQL Server, SSAS

BI & Visualization: Power BI, Tableau, Sigma Computing, SAP Lumira, Hex, SSRS

Data Analysis & Processing: Pandas, Spark, Celonis Process Mining, PM4PY

Data Management: SAP Information Steward, Atlan, SSIS, SAP Data Services

Programming: Python, C#, Java, VBscript, SQL, OOP

AWS: Lambda, S3, EventBridge, CloudWatch, DynamoDB, RDS, QuickSight

Azure: ADF, Web Apps, Event Hubs, ADLS, DevOps

ERP: SAP, Odoo

Personal Details

Languages: Arabic, English

Nationality: Canadian