+41 77 287 08 93 ☑ abdelhamid.dahak @ gmail.com Nationalities: French, Moroccan

# Big Data & Cloud Architect

### Summary

Senior Software & Data Engineer (Associate Director) with deep expertise in cloud-native bigdata and AI platforms, DevOps/MLOps, and large-scale platform automation. I design and deliver resilient, secure data solutions—most recently at UBS, where I built CI/CD and Databricks workflows for AI-driven compliance-risk models and cut Azure spend by 20 %. At Amadeus I oversaw three teams running a 10-PB Azure data platform that processes more than eight billion daily transactions and founded HexaMLOps to industrialise Kubeflow and AzureMl pipelines. Earlier, I led the migration of 120+ legacy applications to Azure, optimised AKS clusters, and built real-time Kafka-Spark pipelines handling one billion daily transactions. Passionate about translating business strategy into data-driven, AI-powered solutions that create measurable impact at scale

#### Education

2015-2018 ENSEEIHT, Master in Computer Science – Major in High Performance Computing & Big Data, Toulouse, France

2012-2014 Undergrade studies in Mathematics & Physics, MPSI-MP\*, Fez, Morocco

### Experience

## September Senior Software & Data Engineer - Cloud & Big Data - UBS Switzerland

2024 – O Within UBS' Group Compliance, Regulatory and Governance, my role is to build data-driven solutions for non-financial risk management.

- Present
  - O Designed & maintained CI/CD pipelines for a fraud detection models using Azure DevOps.
  - O Developed internal tools supporting FinOps efforts, leading to around 20 % cost savings.
  - O Built Databricks workflows to track key performance indicators for AI-based compliance-risk models.
  - O Tools & Technologies: Python, pandas, pyspark, Databricks, Docker, Automation Account, FunctionApp.

#### September Big Data Cloud Architect - Amadeus IT Group

September 2024

- 2023 Oversaw 3 teams delivering big data platforms in Azure and AWS, including a data platform in Azure processing over 8 billion transactions per day, orchestrating 120+ Spark jobs with 10,000 daily executions, and managing 10 petabytes of data.
  - O Drove MLOps adoption and founding the HexaMLOps open-source and orchestrating Kubeflow pipelines to deliver highly scalable, automated model serving.
  - Implemented observability pipelines using Kafka & Databricks, improving system reliability.
  - o Tools & Technologies: Kafka, Kafka-Connectors, Mlops, Kubeflow, AzureML, Databricks, Spark.

#### April 2023 - Acting Team Manager - Amadeus IT Group

- September Managed team of 10 engineers during leadership transition.
  - 2023 O Coordinated multi-team cloud migration & MLOps projects.
    - Ensured on-time delivery of key deliverables and sustained team productivity.

#### January 2021 Technical Product Owner - Amadeus IT Group

- April 2023 Led the migration of 120+ legacy applications to Azure, covering over 8 billion transactions per day.
  - Designed & delivered secure data transfer workflows to the cloud, ensuring continuity and compliance.
  - Facilitated the work of Data Stewards by standardizing data pipelines and simplifying team's governance.
  - Collaborated cross-functionally to deliver all migration phases on time and within scope.
  - Tools: Azure, Jira, Confluence, Agile SAFe, Mural.

#### October 2018 Senior Big Data Engineer - Amadeus IT Group

- April 2023 Built and maintained real-time pipelines for 1B+ daily transactions across 100+ apps.
  - Migrated Spark workloads to Databricks, orchestrated via Airflow.
  - O Developed custom Kafka Connectors (Kafka2Blob, Kafka2ELK, etc.).
  - Delivered Spark-based KPIs & monitoring apps, improving platform observability.
  - O Tools & Technologies: Kafka, K-Streams, K-Connect, Spark, Scala, Java, Elasticsearch, Python, Kubernetes, Hadoop, Hive.

#### Technical skills

Certifications: Certified SAFe® 5 Practitioner, Certified Agile® Scrum Master, Certified SAFe® 5 Product Owner.

Languages: Java, Python, Scala, Bash, PowerShell.

Spoken: English: Bilingual Arabic: Native speaker - French: Bilingual - Japanese: Beginner