DAHMANI SALAH

AI & Data Engineer $\sim$ 3 years' of experience

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EDUCATION

Telecom SudParis / Université Paris Saclay   2022 - 2023
Master's Degree   *Paris, France*
· MSc in Data Science and information systems

École Polytechnique   2019 - 2022
Engineering Degree (BAC+5)   *Alger, Algeria*
· Engineering degree in Applied Mathematics, Embedded Systems, and Artificial Intelligence

École Polytechnique   2017 - 2019
Classes Préparatoires aux Grandes Écoles (CPGE)   *Alger, Algeria*
· Intensive preparation in Mathematics, Physics, and Computer Science
· Ranked in top 1% of students to join the engineering cycle

CAREER OBJECTIVE

Data & Cloud Engineer with $\sim$ 3 years of experience, specialized in building and optimizing data platforms, implementing ML solutions, and driving cloud infrastructure modernization. Proven expertise in data engineering, analytics, and DevOps practices with a strong focus on delivering scalable solutions.

TECHNICAL STRENGTHS

Languages	Python, SQL
Cloud	GCP (2 years of experience), AWS (Aws Glue, EMR, ECS, SNS, SQS, CloudFront, CloudWatch)
Data Warehouses	Snowflake, BigQuery, Redshift
Databases	PostgreSQL, MongoDB, NoSQL
Data Ingestion	Airbyte, DLThub, Fivetran, DataStream
Data Transformation	DBT, SQL, Pandas, Dataform, Spark
Data Orchestration	Airflow, Google Workflow
Data Visualization	PowerBI, Looker, Streamlit, Metabase
Infrastructure	Docker, Terraform, CloudFormation
Version Control	Git (GitHub Actions, GitLab CI/CD)

WORK EXPERIENCE

Modeo   October 2023 - Present
Data Engineer   *Paris, France*
· ***Puma*** (Tech Lead Data Engineer)
· Developed marketing performance analysis solution using social media scraping (TikTok, Instagram)
· Implemented serverless data ingestion using Airbyte and Python scripts orchestrated via Google Workflow
· Applied ML/AI algorithms for image similarity (SSCD) and object detection (Yolo, GroundingDino)
· Optimized algorithm performance through GPU utilization and batch processing
· Designed data models connecting scraping results with similarity and object detection analyses
· Set up infrastructure as code using Terraform and implemented CI/CD pipelines
· ***Heevi*** (Data Engineer)
· Created a Snowflake/DBT Data Platform for fleet management and real-time pricing calculations
· Developed multi-layer data transformation pipelines with dimensional modeling in Snowflake
· Set up data quality monitoring using Great Expectations and comprehensive testing
· Architected serverless automation for customer billing:

- Python API with FastAPI deployed on Cloud Run
- Event-driven architecture with Google Pub/Sub
- Orchestration via Google Workflows and Cloud Scheduler

- *Kiplin* (Data Engineer)
- Established GCP-based Data Platform (Cloud Run, Workflows, BigQuery)
- Created data ingestion jobs using DLT and transformation pipelines with DBT
- Implemented infrastructure as code with Terraform and CI/CD on GitLab
- Provided technical guidance to business teams on platform usage
- *Mercateam* (Data Engineer)
- Modernized Data Platform reducing processing time from 1 hour to under 10 seconds
- Configured CDC between PostgreSQL and BigQuery using DataStream
- Migrated data transformations to DBT and formalized infrastructure with Terraform
- *Carac* (Data Engineer - Snowflake Trainer)
- Developed POC for data platform migration project
- Set up RBAC user and role management best practices on Snowflake
- Orchestrated DLTHub and DBT pipelines with Airflow
- Created reporting dashboards with Streamlit-Snowflake
- Implemented CI/CD workflows with GitHub Actions

Crédit Agricole   March 2023 - September 2023
Data Scientist intern   *Paris, France*
- Led SMART Conso project to enhance marketing campaigns based on customer digital behavior
- Developed multimodal predictive models incorporating financial transactions and web tracking data
- Implemented data collection and processing pipelines for customer financial operations
- **Tech stack:** Python (TensorFlow, Streamlit), SQL, S3, GitLab CI/CD

ACADEMIC ACHIEVEMENTS

Awarded Excellence Scholarship from Institut DataIA in collaboration with Telecom Paris and Paris Saclay University for Master's studies in Data Science

Graduated with High Honors (17/20) from École Nationale Polytechnique d'Alger with Engineering degree

Completed research internship at Sorbonne University, focusing on climate change prediction using Variational Autoencoders

Successfully completed multiple internships in AI and Data Science, gaining hands-on experience in real-world applications

PROJECTS

Personalized GenAI Assistant
Developed a personalized GenAI bot using AWS services (S3, Glue, Apache Iceberg) and RAG architecture to efficiently manage and search through personal documentation, implementing secure vector database for enhanced information retrieval.

EXTRA-CURRICULAR

Head of Information and Technology Department at Club d'Activités Polyvalentes (CAP) (January 2020 - January 2021)
- Led the IT department of the student organization, managing digital transformation initiatives
- Supervised a team of IT assistants and coordinated technology-related projects

Charity Festival Organizer at CAP (February 2019 - April 2019)
- Coordinated humanitarian aid initiatives and fundraising events
- Managed logistics and volunteer teams for community service projects