

# DAHMANI SALAH

AI &amp; Data Engineer ~ 3 years' of experience

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## EDUCATION

<b>Telecom SudParis / Université Paris Saclay</b> <i>Master's Degree</i> · MSc in Data Science and information systems	2022 - 2023 Paris, France
<b>École Nationale Polytechnique</b> <i>Engineering Degree (BAC+5)</i> · Engineering degree in Applied Mathematics, Embedded Systems, and Artificial Intelligence	2019 - 2022 Algiers, Algeria
<b>École Nationale Polytechnique</b> <i>Classes Préparatoires aux Grandes Écoles (CPGE)</i> · Intensive preparation in Mathematics, Physics, and Computer Science · Ranked in top 1% of students to join the engineering cycle	2017 - 2019 Algiers, Algeria

## CAREER OBJECTIVE

Data & Cloud Engineer with ~ 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

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

## WORK EXPERIENCE

<b>Modeo.ai</b> <i>Data Engineer</i> · <b>Puma</b> (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 · <b>Heevi</b> (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:	October 2023 - Present Paris, France
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- 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)
  - 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

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- 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

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### 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

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**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

## INTERESTS

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Running+++, Tennis, Italian Cuisine, Hiking & Adventure, Football