

# Nabil Seid

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Seasoned Senior Data Engineer with a proven track record in designing, building and maintaining robust data pipelines at scale, enriching analytical and feature store datasets, crafting customized reports and analytical insights, and staying abreast of emerging technologies.

## EXPERIENCE

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- Adludio** Feb 2022 - Sep 2024  
*Sr Data Engineer (Full-time)* London, UK - Remote
  - Designed and implemented a scalable data lake house architecture on AWS, handling over 10 GB of daily data and managing 15 TB of historical data. Utilized **Kinesis** for real-time log data streaming, **S3** as the lake house storage, **Athena** for optimized querying, and **Glue** for ETL jobs and workflow orchestration. This architecture enhanced data availability and scalability, reducing scan volume by **95%** to ensure efficient processing and substantial cost savings.
  - Developed a client-facing KPI performance dashboard that elevated the company's value proposition, positioning it as a data-driven leader in ad tech. The dashboard provides real-time, actionable insights on campaign performance and quality control, helping clients make timely, informed decisions and improving overall client satisfaction and retention.
  - Built a core Python package that serves as the backbone of the data team. This package comprises multiple tools used to build and automate data solutions on top of AWS infrastructure, significantly enhancing the efficiency and capabilities of the data team.
  - Created a comprehensive real-time data monitoring system that provides real-time information on data pipeline status and statistics about the data being processed. Integrated with Slack for summary reporting and alerting on critical issues, this system boosted data pipeline resilience and operational reliability.
  - Lorenzo Campaign Setup:** Automated campaign setup across multiple demand-side platforms within a SaaS application, improving operational efficiency and reducing setup times.
- Adludio** Jan 2021 - Feb 2022  
*Backend & Data Engineer (Full-time)* London, UK - Remote
  - Developed the **Deep Insight Tool (DIT)**, an internal web application using Flask (API) and React (frontend) to provide performance insights and trend analysis, resulting in faster decision-making across teams.
  - Reduced the report generation time for campaign managers from four hours to one hour by integrating a Python-based Google Sheets report generator with AWS Athena and Glue.
  - Created a custom Flask plugin for SSO authentication, reducing development time by **25%** and improving backend workflow efficiency.
- Upwork** Oct 2020 - Dec 2020  
*Python Developer (Freelancer)* Remote
  - Built custom web scraping solutions for extracting data from Google Trends and financial trading websites, resulting in comprehensive datasets for trend analysis.
  - Developed a web app that aggregates audio search results from multiple sources, improving user experience and search efficiency by integrating multiple APIs.

## EDUCATION

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- Addis Ababa Institute of Technology** Addis Ababa, Ethiopia  
*Bachelor of Science in Software Engineering* Jan 2015 - Dec 2020  
*Courses:* Data Structure & Algorithm, OOP, Networking, Distributed Programming, Web & Mobile Development, Computer Security
- 10 Academy** Jul 2020 - Oct 2020  
*Data Engineering and Analytics*  
*Courses:* Python, SQL, Statistics, ETL pipeline, Exploratory data analysis, visualization and reporting

## PROJECTS

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- AdFlow - ETL tools for AWS Athena:** An open source collection of tools used to build data pipeline on top of AWS Athena.
- AthenaSQL - query builder engine for AWS Athena:** An open source tool designed to eliminate the need for hard-coding SQL queries as strings within Python scripts and as an alternative to any bespoke SQL query templates

## TECHNICAL SKILLS

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- Languages:** Python, SQL, Bash, Golang, JavaScript, HTML/CSS
- Tools:** AWS, Athena, Glue, Lake Formation, PySpark, Airflow, Kafka, Docker, GIT, PostgreSQL, Tableau, Power BI
- Data:** Big Data Pipeline, ETL, Warehousing, Data Modeling, Shell Scripting
- Frameworks:** Pandas, Scrapy, Beautiful Soup, FastAPI, Django, Flask, SQLAlchemy, boto3, HTMX