# Tope Folorunso

## Data Engineer

Ibadan, Nigeria
+2348166561488
✉ folorunsotemitope10@gmail.com
in LinkedIn/topefolorunso
☺ Github/topefolorunso
LeetCode/topsss
Medium/topefolorunso

## Education

**2016 – 2022**   **Bachelor of Science**, *Chemical Engineering*, Obafemi Awolowo University, Ile-Ife, Nigeria.
First Class (CGPA: 4.51/5 - Top 7% of the class)

## Projects

- **Musicaly**, Built an end to end ELT (Extract, Load & Transform) data pipeline that facilitates real-time data-driven decision making using real-time data from a simulated music stream API. Stream Analytics were performed and deployed using Google Data Studio..
  **Tools:** *Python, SQL, PostgreSQL, Terraform, Docker & Docker Compose, Google Cloud Platform (Cloud Storage, BigQuery, Data Studio), Apache (Kafka, Spark Streaming, Airflow), dbt, Bash Scripting, Git/GitHub*

- **Energize (in progress)**, An end to end batch ETL (Extract, Transform & Load) data pipeline to ingest, clean, transform and analyze US Energy data from an API..
  **Tools:** *Python, SQL, Azure SQL, Terraform, Databricks, Azure Synapse, PySpark, Azure Data Factory, Git/GitHub*

- **SM-API**, Built a backend REST API for a social media application. Created persistent database, tables and entity relationships. Implemented user authentication and voting system. Deployed API using Heroku.
  **Tools:** *Python, PostgreSQL, FAST API, Alembic, Heroku, Git/GitHub*

- **Neural Network Model for Deep Water Production Forecasting**, Forecast daily oil and gas production for deep water reservoirs by developing a deep learning, neural network model using time series data. Optimized the neural network model using a genetic algorithm. Cleaned and pre-processed the data for model training.
  **Tools:** *Python, Jupyter Lab, Keras, TensorFlow, matplotlib, seaborn, pandas, numpy, Git/GitHub*

## Certifications

**Data Engineering, Big Data, and Machine Learning on GCP**, *Coursera | Google Cloud*.

**Google Data Analytics**, *Coursera | Google*.

**Microsoft Azure Data & AI Fundamentals**, *Microsoft*.

## Experience

**Aug. 2022 - Nov. 2022**   **Data Engineer Intern**, *Tribes.AI*.
- Reduced cloud storage cost by 94% by implementing life-cycle configuration to cloud data lake.
- Improved pipeline efficiency by 66% by implementing Python 3.x async feature in pipeline runs.
- Built, and maintained batch data pipelines to process and load JSON data to Neo4j Graph database.
- Improved Neo4j loading process by ensuring data quality of datetime and duration data types.
- Improved pipeline, and compute instance availability by optimizing concurrent pipeline runs.
  **Tools:** *Python, Airflow, Flask APIs, Neo4j, Google Cloud Platform, Kubernetes, Git/Github, Jira*

**Aug. 2020 - Nov. 2021**   **President, Lead Project Manager**, *SPE, OAU Chapter*, Ile-Ife, Nigeria.
- Led a team of 11 executive members, 24 officers and about 116 volunteers to organize educational webinars, technical trainings for members' professional and technical development, mentorship visits to secondary schools and community projects within and outside the university.
- Won 2021 Student Chapter Excellence Award, Best SPE Student Chapter in Nigeria, Best Student Chapter in Lagos Section.

## Honors

**2021**   **Winner**, *SPENC National PetroQuiz Competition*, PTI, Warri, Nigeria.
**2021**   **Winner**, *SPE International Excellence Award*.
**2015**   **Second Best Result**, *Learn Africa Award for Best NECO Results in Ogun State*, Lagos, Nigeria.

## Languages

- **English & Yoruba** – Native language.
- **French & German** – Preliminary.

## Activities

Algorithm Programming (Leetcode, HackerRank,...), FreeCodeCamp, Chess, Football, Music.