

Salamot Fakoya

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Education

The University of Texas at Dallas

Bachelor of Science in Data Science

Expected December 2026

Richardson, Texas

Skills

Technical Skills: R, Python, C/C++, SQL (PostgreSQL, MySQL), MATLAB, HTML/CSS

Relevant Coursework: Applied Linear Models, Advanced Calculus, Linear Algebra

Libraries (Proficient): Tidyverse, NumPy, SciPy, Pandas, Matplotlib, Seaborn, Streamlit, Boto3, e.t.c

Tools | IDE: RStudio, Positron, Anaconda, VSCode, PyCharm, DataSpell, Jupyter Notebook, Wix, Quarto, Hugo (Beginner)

Projects

CRUD App | [github.io](#) | *Python - streamlit, pandas, matplotlib | SQLite3* **February 2025**

- Created a task management application with an intuitive interface, enabling users to create, read, update, and delete tasks seamlessly.
- Implemented dropdown menus and the datetime library to allow users to select task statuses and specify due dates efficiently.
- Designed a task analytics system featuring interactive pie charts to help users view and track task distribution.

EDA on COVID-19 Pandemic in the US | [github.io](#) | *R - tidyverse | Quarto* **February 2025**

- Conducted an extensive EDA on over 25,000 observations of COVID-19 data across U.S. states and regions.
- Cleaned, prepared, and merged datasets to analyze trends in confirmed cases, deaths, vaccination rates, and government responses.
- Developed custom functions to generate insightful plots and charts, revealing key patterns and progression of the pandemic.
- Built a comprehensive website using Quarto to document the EDA process and present findings in an accessible format.

SQL Playground | [github.io](#) | *Python - streamlit, pandas, tempfile, mysql.connector, sqlite3 | SQL* **January 2025**

- Designed and implemented a web application with cross-database compatibility (SQLite and MySQL), enabling users to upload SQLite files, access pre-loaded sample databases, or connect to MySQL servers via user-provided credentials.
- Integrated error-handling mechanisms to validate queries and deliver user-friendly feedback (e.g., dynamic alerts, input validation).
- Utilized and managed session states enabling users to re-enter and edit credential information to connect to desired database.

Metadata Extractor | [github.io](#) | *Python - streamlit, PIL, seaborn, eyed3, exifread, tempfile, sqlite3, and so on* **January 2025**

- Developed a multi-file web application using Streamlit that extracts and summarizes meta-tags from uploaded files by integrating libraries such as PdfReader, exifRead, eyed3 to analyze PDFs, images and audio files respectively.
- Implemented session state management to allow users to seamlessly switch between menu options while retaining uploaded file information until deletion.
- Designed a file analytics system featuring dynamic bar plots to visualize the distribution and types of uploaded files.

Data Analysis on Netflix (Course Project) | [github.io](#) | *R - ggplot2, readr* **November 2024**

- Gathered data from external sources, imported, and parsed collected CSV data variables to specific types.
- Improved data quality and enabled accurate insights in EDA for the team by thoroughly cleaning and preparing merged data, decluttering, and narrowing down key records from over 10,000 to 275 observations.

Work Experience

Form2Life Design LLC | Design Intern (Seasonal)

August 2024 – January 2025

Design – AutoCAD, Wix Editor | Excel

Houston, Texas

- Re-designed and edited an [art store](#) for desktop and mobile accessibility using Wix Editor.
- Managed expense records by collecting receipts and aggregating costs of modelling and painting projects.
- Drafted detailed 2D elevation walls for renovations in design projects using AutoCAD, contributing to project planning and execution.

iEducate | Elementary School Tutor | Mathematics

March 2023 – June 2023

Mathematics

Houston, Texas

- Collaborated with partner teacher in coordinating about 40 students and ensuring compliance with school instructions.
- Coordinated small group supports and reviewed mathematical concepts like arrays, 2D and 3D shapes with 3rd-4th grade students.
- Achieved self-growth in communicating and explaining mathematical concepts through ongoing tutoring experiences.
- Facilitated constructive feedback with students to encourage a positive attitude toward math resulting in increased academic success.

Extracurricular

Artificial Intelligence Mentorship (AIM) | Mentee

Fall 2024

Python - boto3 | SQL | [github.io](#)

University of Texas at Dallas

- Collaborated with 5 students to develop a predictive model for identifying and forecasting machine failures.
- Designed modularized scripts to connect, manipulate, upload, and download data to AWS S3 Buckets and SQL Database.

CougarCS | Volunteer Tutor

Spring 2024

Python

University of Houston

- Conducted one-on-one tutoring sessions with students, addressing their questions related to Python and problem-solving techniques.
- Clarified concepts, debugged code, and guided learners through challenging programming exercises.