

Oluwatofunmi Caulcrick

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Profile

Highly qualified, goal-driven engineer with a progressive career in software development by implementing expertise in Python, Django and SQL. Able to apply and manage complex data structure and algorithms to provide maintainable and quality software solutions. Demonstrated success in developing end-to-end diversified data analysis applications. Self-motivated professional and a team player adept at collaborating with engineers and cross-functional teams to deliver projects, ensuring optimum quality and adherence to schedule.

Technical Proficiencies

Programming Languages: Python, Django, SQL

Tools: Microsoft Suite, MongoDB, Shell Scripting, Git/GitHub, AWS

Software: Airflow, Microsoft Dynamics 365, Power BI

Career Experience

CAUL CONSULT (Caulsult), Lagos, Nigeria
Consultant/Freelancer

Aug 2022 – Present

Advise clients on software and engineering solutions aimed at refining functions within their businesses. Develop software, database and analytics platforms for clients using Python, Airflow, SQL, Django and Microsoft Power BI and AWS services. Extend business improvement suggestions and data-driven solutions to clients.

- Built a web application using Python's Django Framework, Dash, Plotly and AWS services (including S3, Route53, EC2, ALB, RDS) to offer clients with customised and optimal data solutions.

Amazon Web Services, Västerås, Sweden
Data Center Engineer

Sept 2021 – July 2022

Fixed crucial engineering concerns by acquiring insights from data analysis of various automation tools, including BMS (Building Management System) and EPMS (Electrical Power Management System). Completed intricate data management responsibilities for engineering activities on different software tools, including Quip, Microsoft Excel, and Enterprise Asset Management. Extended the following project during this role.

- Supported an audit project comprising more than 400 pieces of equipment by acquiring crucial equipment data from robust data extraction and manipulation processes.
- Automated numerous data engineering tasks and boosted productivity and efficiency.

Northvolt, Västerås, Sweden
Maintenance - Data Engineer

Mar 2019 – Aug 2021

Developed and implemented data integration processes for accumulated data from several resources, including equipment maintenance manual, P&ID drawings, and asset inventory documents for an automated maintenance management system. Strategized and executed maintenance management module on the company's ERP system. Drove training sessions and created training materials for the execution of an asset management module on Microsoft Dynamics 365 software. Teamed up with supply chain, technology, and procurement teams for performing data structure and data management of spare parts on Siemens PLM software.

- Developed a system to catalogue over 1500 warehouse spare parts.
- Orchestrated in-depth analysis of over 8K records and addressed lost equipment asset ID data.

Collaborated directly with the lead of the powerplant department and examination officers of the Aircraft Maintenance Engineering School. Supervised exams and tests also accumulated students' results. Orchestrated various powerplant courses driven tutorial sessions. Helped with lecture classes and assisted in preparing minutes of the meeting.

- Devised course materials to support the training of over 200 students.

Utilised Microsoft Excel to create specifications and material take-off of structures. Collaborated with related engineering departments necessary for developing project work using work procedures and methodologies defined by the company. Complemented the design process by employing knowledge-centred engineering principles. Implemented design techniques for simplifying intricate designs by using industry standards and codes for structures to execute and install subsea projects and support development.

- Designed and performed structural analysis for several offshore and subsea structures.

Individual Projects

Developed following personal projects:

(Link: <https://github.com/Tofunmi-creator/samples>):

Web Scraper (Online Books)

March 2023

Developed a web-scraping tool that enable users view all book topics on the "Books to Scrape" website, select any genre to view books available in that genre and to retrieve price information for books matching a specified genre and book input. Used Python's OOP design and Python's BeautifulSoup (bs4) library to extract data from the website. This tool was developed on a python script and with the Django web framework. The project was deployed on AWS.

Electronic Wallet

Oct 2022 – Nov 2022

Enable users to create, fund, check the account balance, transfer funds, and sign into respective accounts through this application. Used Python's OOP design, PostgreSQL to build backend operations, and Tkinter module to develop the application's UI.

Classification Pipeline (Cardiovascular Dataset)

May 2022 – July 2022

Built an automated ETL pipeline for pre-processing, data extraction, model training, data exploration, emailing, and model inference through the Apache Airflow tool. Created test cases utilising Python's pytest module to check functions for various stages of the classification model.

Education

Master of Science in Innovative Sustainable Energy Engineering
Joint Masters in Innovative Sustainable Energy Engineering
KTH Royal Institute of Technology, Stockholm Sweden

Master of Science (Technology)
Joint Masters in Innovative Sustainable Energy Engineering
Aalto University, Espoo Finland

Bachelor of Science (Hons.) Mechanical Engineering
University of Lagos, Akoka, Lagos State

Professional Training

SQL Server Developer Track - DataCamp
SQL Fundamentals Track-July 2022 - DataCamp
Microsoft Querying Data with Transact-SQL – December 2018 - edX
Microsoft Analyzing and Visualizing Data with Power BI – November 2018 - edX
Introduction to Python: Absolute Beginner & Fundamentals - September 2018 - edX

Licenses & Certifications

Ultimate AWS Certified Solutions Architect Associate SAA-C03 – Udemy
Data Engineer with Python Track – DataCamp – June 2022
Python Programmer Track – DataCamp – May 2022