Ola Jide Olagunju

EXPERIENCE

ChampionX – Engineer

Sep 2021 – present

Managing chemical biocide, corrosion and scale inhibitors, demulsifiers, and other oilfield chemicals for our clients. Facilitating processing of orders, deliveries, and quality assurance of products.

Lionbridge Technologies, MA – *Data Analyst*

Sep 2018 – Sep 2021

Working with the AI team to improve the Google/YouTube search engines for millions of users via mobile data quality analysis. Also conducting evaluations on thousands of websites per week and reporting user metrics on each of them

DC Water, Washington DC – *Wastewater Engineer/Analyst*

Feb 2016 – Jul 2018

Led a team in daily operation, maintenance, and performance analysis of a 320-gallon high-rate contact-stabilization wastewater reactor. Implemented a station to process, statistically analyze, and visualize data from the pilot.

Redesigned the measurement of the Limit of Stokesian Settling (LOSS) in wastewater to mitigate clarifier failures. Formulated new techniques for the plant to employ in their full-scale operation and composed bi-weekly technical reports on performance and achievement of goals

LVL 10 Fitness University, Washington DC – *Administrative Assistant*

May 2015 – Aug 2015

Assisted the CEO in organizing Clientele files, and uploading them to a digital platform. Managed reports, calendar items and website traffic to streamline workflow and increase efficiency of operations

Nalco Champion, Escravos, NG – *Oil Field Chemicals Intern*

May 2014 – Jul 2014

Aided Nalco engineers in a Chevron owned midstream site and evaluated crude oil from the upstream, to get Basic Sediment and Water (BS&W) levels. Also regularly reported injection rates of biocide, emulsion breakers, scale and corrosion inhibitors going downstream and tested quality of cooling water for cooling towers.

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SKILLS

Engineering: BioWin, Coco Chemical Simulator, Simulink, P&ID, Reactor Design, Drafting, Civil 3D, GIS, Water/Wastewater Analyses, BOD & Jar tests

Data: SQL, Tableau, PowerBI, Data Collection, Data Management, Data Analysis, Statistical Analysis, Exploratory Data Analysis, Modeling, Data Mining, Data Visualization, MySQL, Excel Analysis, VBA, Pivot Tables

Coding: Python, R, C++, pandas, Selenium, Web Scraping, HTML, Machine Learning, PyTorch, Object-Oriented Programming

EDUCATION

Master of Environmental Engineering (M. Eng.)

2018 – Howard University, DC

Bachelor of Chemical Engineering (BSChE)

2016 – Howard University, DC

ACCOMPLISHMENTS

Engineer in Training **(EIT)** license – NCEES

Workshop Speaker – Water Environment Federation Technical Exhibition and Conference (WEFTEC)

Best Student in Senior Project Design and Cum Laude Honors –

Howard University

PROJECTS

O.U.R as a Control for Wastewater Treatment — *R, C++*

Built a system to continuously analyze microbial activity in wastewater via the Oxygen Uptake Rate (OUR). Used C++ and R algorithms to control the system and increase energy recovery in secondary wastewater treatment by 36%. Thus, potentially cutting energy costs per year by $5 million

Design for Commercial Manufacturing Facility for Cell Therapy Treatment of Spinal Cord Injuries

Designed a facility which would use multiple parallel micro reactors to produce high quality neural stem cells from adipose tissue to treat 500 people a year as a test case for future growth. The design returned an ROI of 26.53% and undercut the market at a sales price of $8,500

L.O.S.S in Wastewater — *R*

Developed a new system for quantifying the minimum concentration of wastewater at which sedimentation in treatment tanks cause poor water quality. Used Regression and Logistic mathematical models in R, saving thousands of man-hours per week in troubleshooting tank failures

Chinook — *SQL, Python*

Traversed a database for a Business to find out: top genres sold, sales performance by country, etc. Visualized data using python pandas and advocated to expand marketing efforts in India due to their population and one of the top average lifetime consumer purchases ($91.58)

NYC SAT Scores — *Python*

Performed an EDA of SAT Scores from 363 High schools in 32 Districts, including alternative high schools using pandas. Ascertained that Black and Hispanic students were 16% more likely to perform worse in SAT exams, due to a majority of their residences in low-income districts

Analyzing the Inflation of Fandango Ratings — Python

Inspected over 300 Fandango movie ratings from 2015-2017, to assess accusations of Fandango unduly increasing the actual ratings. Determined that the ratings were not statistically different ($p > 0.05$) even though Fandango changed their rating algorithm between 2015 and 2017

Analyzing Employee Exit Surveys — *Python*

Dissected exit surveys from about 1000 employees of the Department of Education, Training and Employment (DETE) and the Technical and Further Education (TAFE) institute in Queensland, Australia. Deduced that employee tenures longer than 6 years were 50% more likely to resign due to job dissatisfaction than those employees with less than 6 years of experience. In addition, age is not statistically significant to job dissatisfaction ($p > 0.05$)