Ola **Olagunju**

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WORK EXPERIENCE

LIONBRIDGE TECHNOLOGIES INC.

DATA ANALYST
Summer 2018 – Present | Greenbelt, MD

- Improving the Google/YouTube AI search engine by delivering thorough mobile data quality assessments
- Conducting daily reports on 100's of websites and reporting user metrics on each of them

DC WATER & SEWER AUTHORITY

WASTEWATER DATA ANALYST
Winter 2015 – Spring 2018 | Washington, DC

- Led a team of 4 in daily operation of a 320-gal pilot while conducting weekly tests on the main bio-reactors
- Implemented a technical station to record, process, statistically analyze, and visualize data from the pilot

NALCO CHAMPION (ECOLAB)

SALES & ENGINEERING INTERN
Summer 2014 | Escravos, NG

- Worked in a team of 5 to sell chemical products to Chevron during poor overall chemical plant performances
- Conducted water tests for boilers and cooling towers

SKILLS

TECHNICAL SKILLS

Proficient with:
Python • Pandas • Selenium • Django • Web Scraping
SQL • Tableau • R • C++ • BioWin • Civil 3D • GIS

SOFT SKILLS

Strong: Public Speaking • **Leadership** • Grit

EDUCATION

HOWARD UNIVERSITY (2012-2018)

MASTER OF ENGINEERING
Graduated December 2018 | Washington, DC
Major: Environmental Engineering
Milestones:

- Key presenter for over 60 industry professionals at the WEF water conferences in 2017 and 2018.
- Received excellent feedback on innovative controls for achieving better energy consumption in an advanced wastewater treatment plant

Exceled on the Fundamentals of Engineering exam
Cumulative GPA: 3.29

BACHELOR OF SCIENCE
Graduated May 2016 | Washington, DC
Major: Chemical Engineering
Extensive elective coursework in:

- Scientific computing and data analysis
- Software development and design

Awarded "Best Student in Senior Design project"
Cumulative GPA: 3.37 · Major GPA: 3.7

TECHNICAL PROJECTS

LIMIT OF STOKESIAN SETTLING | PROTOCOL, DC WATER

Winter 2016 – Spring 2018 | Washington, DC

- Built a new system for quantifying the minimum concentration of wastewater solids at which sedimentation in settling tanks cause poor water quality. Also known as Limit of Stokesian Settling (LOSS)
- Designed a unique R algorithm to convert 100's of images of settling wastewater (in 2-liter jars) to color indexes in order to analyze light penetration through the jar
- Implemented 3 mathematical models in R to process color indexes based on regression analysis, sigmoid fitting and mean deviation of light through the jar
- Presented in bi-weekly meetings with company executives and managed project goals

OXYGEN UPTAKE RATE ANALYZER | CONTROLLER, DC WATER

Winter 2015 – Summer 2017 | Washington, DC

- Built automated system to continuously (1 hr. cycles) analyze microbial activity in wastewater via Oxygen Uptake Rate (OUR) respirometry and operate PLC's for pump and sensor I/O
- Implemented 7 C++ algorithms to control microbial wasting, water, aeration, Proportional, Integral and Derivative (PID) tuning, based on a target OUR range. Developed R code to analyze the hourly data
- Led daily laboratory research experiments to assess wastewater quality from the pilot and the plant's mainstream channels
- Championed a novel way to increase energy recovery in secondary wastewater treatment by 36% while targeting a specific microbial activity under variable influent and temperature conditions in a year

MASH IT! | 2D INCREMENTAL GAME, GITHUB

Winter 2013 | Washington, DC

- Built a fun and easy to play 2D game using Python and Pygame
- Implemented variable declaration, functional/object calling, loops, conditionals, order of operations, and error handling
- Coded the title screen, main menu, pause menu, character selection screen, and main action screens
- Led a team of four in designing the graphics and storyboard

BUSINESS & PROFESSIONAL CLUBS

CLUB Z! TUTORING | PRIVATE TUTOR

Winter 2019 – Present | DC Metro Area

- Conducted Algebra, Simple Calculus, Geometry, Functions, Graphs and Trigonometry lessons for aspiring GED examinees
- Implemented time management practice into tutoring curriculum

FIRST LEGO LEAGUE (FLL) ROBOTICS | SR. COACH

Winter 2015 – Fall 2018 | Washington, DC

- Led a team of 10 middle and grade schoolers in building a prototype LEGO robot to complete basic tasks in the FIRST competition
- Taught design thought patterns and coding skills to foster kids' future interest in computer science

AICHE | CHAPTER SECRETARY

Fall 2014 – Spring 2015 | Washington, DC

- Maintained a $2000 budget and planned general body meetings
- Organized 1 on 1 tutoring and volunteer events for 40 members