Ola **Olagunju**

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WORK EXPERIENCE

**LIONBRIDGE TECHNOLOGIES INC.**

WEB 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](https://github.com/OlaOlagunju?tab=repositories)

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](https://github.com/OlaOlagunju?tab=repositories)

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](https://github.com/OlaOlagunju?tab=repositories)

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