

# Abiodun Ajirotutu

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## Professional Summary

- A passionate software engineer with high proficiency in programming, cloud computing, networking, and operating systems management.
- Highly proficient in data structure and algorithm. Proficient in data analytics with Python pandas, SQL, and other programming languages.
- Knowledge of serverless technologies such as Lambda, API Gateway, AWS IoT, and Mobil.

## Skills

- Software: Python, HTML, CSS, & JavaScript.
- Data Analytics: PANDAS, SQL Matplotlib, Tableau, Microsoft Excel VBA, and SQL.
- Cloud Computing: Cloud services, Cloud deployments, and Networking
- Networking Technologies: DNS, TCP/IP, SSL, DHCP, and Load Balancing
- Engineering Design: MATLAB, Abaqus, ANSYS, and other CAD/CAE software

## Educational qualifications

January 2019: August 2020

MSc Mechanical Engineering

Texas A&M University, Kingsville

GPA: 3.90/4.00

Published research on mathematical modeling of engineering systems using Python and MATLAB program.

Analyzed design components of complex engineering systems using GUI, and scripting/coding methods.

## Employment Experience

### **Process Safety**

### **Amazon**

**August 2020 – Till Date**

- Prepare weekly reports by using Amazon cloud support analytical tools to analyze and visualization safety data
- Coordinate with the operations in troubleshooting process bottlenecks by visualizing process data to achieve most effective solutions
- Evaluate process variations and identify appropriate approaches to achieve stability, and continuous improvement in the system.
- Collaborate with the operations team to carry out root cause analysis (RCA) of safety issues and implement appropriate corrective actions that improved safety records by 97%.

### **Research Engineer 2020**

### **Texas A&M Systems**

**January 2017 – August**

- Develop web applications for high schools using JavaScript, html, and CSS
- Carried out big data projects using Jupyter notebook and Python pandas, and SQL
- Designed thermal reactor using MATLAB and CAD software

### **Manufacturing Engineer**

### **Mansfield Energy**

**March 2017 – December 2019**

- Implemented and supervised production plant's automation to replace manual processes and eliminate delays, which consequently increased the production output by 75%.
- Proficiently analyzed process data with SQL, Pandas, and Matplotlib for effective management and business forecasting which consequently increased the business growth by 25% per annum.
- Effectively managed sales inventory records and upgrades by using SQL for querying to effective forecast business needs and direction that reduced customers waiting time.

## Extra-Curricular Activities

**Membership:** National Society of Black Engineers (NSBE), Society of Manufacturing Engineers (SME).

**Scholarship:** 2019 College of Engineering Dean's Graduate Merit Scholarship, TAMUK

**Volunteers:** Mentored Memorial Middle School students on STEM Education (Summer 2019)