

# Okonkwo, Thomas

## Software Engineer

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## Social Media:



## EDUCATION

### Prairie View A&M University

M.Sc Computer Science 4.00/4.00

AUG. 2021 – PRESENT

### University of Lagos, Akoka, Nigeria.

B.Sc Electrical and Electronic Engineering 3.08/4.00

SEPT. 2013 - JAN. 2018

## SKILLS

**Streaming:** Kafka, Spark Streaming

**BigData platform:** MapR

**Backend:** Java (Spring Boot), REST, Python, Scala, SQL, Apache Beam

**Infrastructure:** Kubernetes, Docker, Jenkins, Fortify Security Scan, GCP

**Miscellaneous:** Algorithms, Big Data, Machine Learning, Hadoop, time-series analysis

**Others:** Hadoop, Apache Drill, Apache Spark, ActiveMQ, Neo4j, hive, HBase

## OBJECTIVE

I am a motivated computer science student from Prairie View A&M University with over three years of experience in software development. A solution-oriented team player with a recognized aptitude for innovative thinking. I am enthusiastic, responsible, and hardworking. Having worked on different projects, it has helped me to adapt to changes quickly and made me a mature team worker. I can work well both in a team environment and as well as using my own initiative.

## WORK EXPERIENCE

### Twitter Inc. — Engineering intern

MAY. 2022 - PRESENT

- Working with the Machine Learning Data Framework team to build data pre-processing tools for machine learning.
- Building software applications in service of machine Learning using Apache beam
- Writing beam jobs for different computation using Google Cloud Storage, using machine learning data framework
- Building libraries using Apache beam and using google dataflow and Notebooks to inspect behaviours while streaming

### Interswitch Group: V.I, Lagos — Software Engineer

SEPT. 2018 - JAN. 2021

- Developed a credit transfer middleware for banks to increase their overall inward transfer success rate across multiple payment channels using Java Spring.
- Manipulated algorithms to align with marketing, sales, and solutions, improving automation by 30%
- Built and designed a core banking application (REST) to serve as mock for the middleware application.
- Collaborated with a team to develop and implement advanced algorithms and data pipelines that extract, classify, merge, and deliver insights and business value out of heterogeneous structured and unstructured data sets.
- Wrote spark jobs which involved copying data from different sources into MapR DB, jobs for streaming data in real-time (spark structured streaming).
- Determined the software specifications of customers by actively listening to what their system needs were and writing SQL queries in MSSQL server.

## RESEARCH / VOLUNTEER EXPERIENCE

### Prairie View A&M University- Research Assistant

OCT 2021- PRESENT

- Working on research for accurately and precisely locating the mobile genetic elements (mobile DNA) in the genome to generate phylogenetic trees. The machine learning classification and clustering is used to make the phylogenetic trees.

### Oklahoma State University- Research Assistant (Summer Volunteer)

MAY 2021- AUG 2021

- Developing a Machine Learning model for early prediction of sepsis using clinical data.
- Improving the efficiency of an already existing Machine Learning model to increase the accuracy of the model from 93% to 97%.

### Personal Research in Machine Learning

NOV. 2017- SEPT. 2018

- Analysed stock data (from yahoo data) and built machine learning models to predict estimated output and profits using regression analysis.
- Published machine learning articles on medium to teach newbies on creating machine learning models from scratch.

### Pro-Edge ("Go Pro from Uni" Edition): Lagos — Facilitator

JUL. 2019

- I had the privilege to teach and enlighten young people on machine learning in a 3-day workshop - how they can use machine learning to solve societal problems and predicting market trends with hands-on examples.

## ADDITIONAL TRAINING

### Certificates of completion

- Data in Database [Coursera] NOV. 2020
- Java Essential Training: Syntax and Structure - [\[LinkedIn\]](#) MAR. 2019
- Machine learning algorithms, Software, and deep learning [\[Udemy\]](#) DEC. 2018
- IBM Internet of Things Intro - [\[Certificate\]](#) JUL. 2018

