

Okonkwo, Thomas

Software Engineer

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Social Media:



EDUCATION

Prairie View A&M University

M.Sc Computer Science

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, Spring Webflux), REST, Python

Infrastructure: Kubernetes, Docker, Jenkins, Fortify Security Scan

Miscellaneous: Algorithms, Big Data, Machine Learning, Hadoop

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

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).
- Tested software for bugs and operating speed, fixing bugs and documenting processes to increase efficiency by 21%.

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%.
- Provide ready access to all experimental data for the faculty researcher and prepare reports, and presentations.

Personal Research in Machine Learning

NOV. 2017- SEPT. 2018

- Worked as a research data engineer in the research and development department at InterSwitch on spooling data from multiple data sources concurrently to the big data cluster and using C4 documentation for proper documentation of projects in the organization.
- 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
- IBM Data Science and Analytics Intro - [\[Certificate\]](#) JUL. 2018