Okonkwo, Thomas

Software and Data Engineer

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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 more than two years' 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.
- 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).

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**