CHUKWUEBUKA IJEZUE

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EDUCATION

Texas Tech University Lubbock, Texas
Master of Science: Computer Science August 2023 – May 2025

- **CGPA**: 3.9 / 4.0
- **Relevant Courses:** Information Security**,** Pattern Recognition, Neural Networks, Software Analytics, Project Management

Bells University of Technology Ogun, Nigeria
Bachelor of Engineering: Mechatronics Engineering September 2017 – August 2022

- **CGPA**: 4.5 / 5.0 (3.7 / 4.0)

EXPERIENCE

Texas Tech University January 2024 – May 2025
Teaching Assistant

- Promoted a supportive learning environment by addressing student concerns and clarifying expectations
- Supported instructional delivery and managed classroom operations for 100+ students across multiple courses.
- Maintained accurate student records through structured data entry, using Texas Tech University's Learning Management System (Blackboard).
- Promoted a supportive learning environment by addressing student concerns and clarifying expectations.

Huawei Technologies Co., Ltd October 2022 – August 2023
Analyst, Data Integration & Communication

- Built and optimized ETL data pipelines in SQL and Python, improving data integration speed by approximately 50% and enabling near real-time network performance monitoring
- Integrated ten new routing nodes and set up data monitoring instances on Huawei NCE, reducing system downtime by around 15% through improved system redundancy
- Created interactive dashboards in Tableau and Excel to track data metrics and device performance, supporting business intelligence for leadership decision-making
- Queried and analyzed network logs using SQL to uncover usage patterns, data performance bottlenecks, and opportunities for data quality assurance
- Managed data storage and data processing of large-scale datasets on Huawei Cloud, adhering to best practices in data architecture and data ethics
- Mentored two interns during onboarding, sharing knowledge on ETL best practices and team workflows
- Improved system observability through enhanced data visualization and network monitoring across platforms
- Supported data integration across teams, focusing on infrastructure reliability and predictive modeling readiness

Huawei Technologies Co., Ltd April 2021 – September 2021
Tools Automation Intern

- Automated network fault and data reporting workflows on the Huawei OWS platform using SQL and Java, reducing manual checks and improving fault detection for over 10 engineers
- Wrote test reports and implemented solution plans to support software upgrades and bug fixing, enhancing system reliability and security performance

SKILLS

Programming & Data Tools: Python, SQL, Java, Excel, Tableau, Power BI, Pandas, NumPy, Scikit-learn, Matplotlib, Dash, SciPy

Machine Learning & Analytics: Predictive Modeling, Natural Language Processing (NLP), Deep Learning, Statistical Analysis, Data Mining, Data Visualization, Data Wrangling

Data Engineering & Infrastructure: ETL, Data Analysis, Data Modeling, Data Transformation, Data Architecture, Data Quality Assurance, Apache Airflow, Database Management

Cloud & Big Data Tools: AWS, Microsoft Azure, Google BigQuery, SAS, MATLAB

Business Intelligence & Communication: Business Intelligence, Data Storytelling, Data Cleaning, Data Ethics

CERTIFICATES

- IBM Data Science Professional Certificate
- AWS Cloud Support Associate

PROJECTS & RESEARCH

- **Advanced Brain Segmentation Using EMCAD:** Applied EMCAD architecture to segment brain tumors from MRI scans, improving predictive analytics accuracy using PyTorch and deep learning techniques. (link)

- **Console-based Retrieval-Augmented Generation (RAG) Application**: Developed a console-based RAG application combining information retrieval with generative AI, showcasing LLM orchestration and prompt engineering. (link)

- **Hope Classification in Textual Data**: Built a transformer-based NLP model for classifying emotional tone in text (Hope Classification), using Python, Scikit-learn, and Hugging Face. (link)

- **Benchmarking NP-hard problems with QAOA:** A group research project assessing the effectiveness of the Quantum Approximate Optimization Algorithm (QAOA) in solving canonical NP-hard problems, including Knapsack, MAXCUT, and the Traveling Salesman Problem (TSP). (link)