

# CHUKWUEBUKA IJEZUE

cijezue@gmail.com | +1 (806) 758-2754 | LinkedIn: [Chukwuebuka Ijezue](#) | Website: [Ijezue](#)

## 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

- Supported instructional delivery and managed classroom operations for 100+ students across multiple courses.
- Created a collaborative Excel-based grade tracker adopted by six instructors, improving consistency.
- Maintained accurate student records through structured data entry, using Texas Tech University's Learning Management System (Blackboard).
- Analyzed students' grades data using statistical analysis techniques to help instructors identify performance trends.
- Promoted a supportive learning environment by addressing student concerns and clarifying expectations.

Huawei Technologies Co., Ltd

October 2022 – August 2023

Analyst, Data Integration & Communication

- Contributed to the development of ETL pipelines using SQL and Python, achieving a 50% improvement in data integration speed 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 Power BI 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 Huawei's 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 JavaScript, 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, JavaScript, Excel, Tableau, Power BI, Pandas, NumPy, Scikit-learn, Matplotlib, Dash, SciPy

**Machine Learning & Analytics:** TensorFlow, PyTorch, Predictive Modeling, Natural Language Processing (NLP), BERT, 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, Apache Spark, Apache Kafka

**Cloud & Big Data Tools:** AWS, GCP, SAS

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

## CERTIFICATES

- IBM Data Science Professional Certificate
- AWS Cloud Support Associate

## PROJECTS & RESEARCH

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- **Advances in Auto-Grading with Large Language Models: A Cross-Disciplinary Survey.** Presented at the BEA Workshop, 2025. A review paper surveying recent developments in applying large language models for automated grading across disciplines. ([link](#))
- **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 model for classifying emotional tone in text (Hope Classification), using Python, BERT, ROBERTA, and Large Language Models (LLMs), accepted at IberLEF 2025. ([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](#))