

# CHUKWUEBUKA IJEZUE

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## EDUCATION

### Texas Tech University

#### Master of Science: Computer Science

Lubbock, Texas

August 2023 – May 2025

- CGPA: 3.8 / 4.0

- Relevant Courses: Information Security, Pattern Recognition, Neural Networks, Software Analytics, Independent Research

### Bells University of Technology

#### Bachelor of Engineering: Mechatronics Engineering

Ogun, Nigeria

September 2017 – August 2022

- CGPA: 4.51 / 5.0

- Relevant Courses: Artificial Neural Network, Applied Mechanics, System Design, Microprocessor Architecture, Engineering Ethics

## EXPERIENCE

### Handshake

September 2025 – Present

#### AI Fellow

- Train large language models for top-tech clients, focusing on advanced reasoning tasks in machine learning and security.
- Design chain-of-thought prompts to test and improve state-of-the-art (SOTA) models on complex reasoning tasks.
- Analyze and compare multiple machine learning approaches to address a given problem, providing expert human feedback on the most effective and well-reasoned solution.
- Conduct independent research to guide and refine prompt development, and assess model outputs for accuracy, clarity, and depth in technical reasoning.
- Participate in human-supervised reinforcement learning (RL) workflows to review and enhance model responses.

### Texas Tech University

January 2024 – May 2025

#### Teaching Assistant

- Taught 150+ undergraduate students data analysis and applied machine learning using Python, Pandas, and scikit-learn.
- Conducted performance data analysis to identify learning trends and improve my teaching approach.
- Maintained accurate and organized student records in Blackboard LMS for transparent grading and feedback.
- Fostered a supportive and inclusive classroom environment by addressing student questions and providing guidance.

### Huawei Technologies Co., Ltd

October 2022 – August 2023

#### Analyst, Data Integration & Communication

- Maintained ETL pipelines and automated data workflows, improving integration speed and network performance monitoring.
- Collaborated with network engineers to integrate ten new routing nodes and configure device monitoring on Huawei NCE, reducing system downtime by approximately 15%.
- Developed interactive dashboards in Power BI and Excel to track metrics and device performance, supporting data-driven decision-making.
- Queried and analyzed network logs in SQL to uncover usage patterns, performance bottlenecks, and data quality issues.
- Managed large-scale dataset storage and processing on Huawei Cloud, adhering to best practices in data architecture and ethics.

### Huawei Technologies Co., Ltd

April 2021 – September 2021

#### Tools Automation Intern

- Developed, tested, and deployed JavaScript and SQL code in production to automate network fault detection and reporting on the Huawei OWS platform, streamlining workflows for 10+ engineers.
- Produced test reports on proposed code changes, reviewed JavaScript and SQL implementations, and implemented solutions to support software upgrades, enhancing system reliability and security.

## SKILLS

### Programming Languages:

Python, SQL, JavaScript, R

### Machine Learning & AI:

TensorFlow, PyTorch, Large Language Models (LLMs), Natural Language Processing (NLP), RAG Pipelines, LLM Fine-tuning, Deep Learning, Causal modelling, LLM Prompting

### Data Science & Analytics:

Data Analysis & Visualization, Predictive Modeling, Data Storytelling, ETL, Statistical Analysis, Data Modeling, APIs, Git, A/B Testing

### Tools & Platforms:

AWS, Google Cloud Platform (GCP), Huawei Cloud, Tableau, Power BI, Git

### Professional & Interpersonal Skills:

Collaboration & Cross-functional Communication, Technical Presentations, Independent Project Ownership in Fast-paced Environments, Curiosity, Problem Solving, Research Experience

## CERTIFICATES

- IBM Data Science Professional Certificate
  - AWS Cloud Support Associate
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## PUBLICATIONS

- **Advances in Auto-Grading with Large Language Models: A Cross-Disciplinary Survey.** Presented at the BEA Workshop, 2025. Surveyed recent developments in applying large language models for automated grading across multiple disciplines. ([link](#))
  - **Hope Classification in Textual Data (*Upcoming*)**: Built and benchmarked models for hope-speech classification via supervised fine-tuning of BERT, RoBERTa, and GPT-3; accepted at IberLEF. ([link](#))
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## PROJECTS

- **Advanced Brain Segmentation Using EMCAD:** A collaborative research project aimed at applying the Efficient Multi-scale Convolutional Attention Decoding (EMCAD) architecture to segment brain tumors using the BRATS 2020 dataset. ([link](#))
- **AI Resume optimizer:** An ongoing project to Jupyter notebooks demonstrating RAG workflows for improving LLM outputs through context injection. ([link](#))
- **Benchmarking NP-hard problems with QAOA:** Collaborated on a research project evaluating Quantum Approximate Optimization Algorithm (QAOA) performance for Knapsack, MAXCUT, and TSP problems. ([link](#))