

CHUKWUEBUKA IJEZUE

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EDUCATION

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|---|---|
| Texas Tech University <i>Master of Science: Computer Science</i> <ul style="list-style-type: none">CGPA: 3.8 / 4.0Relevant Courses: Information Security, Pattern Recognition, Neural Networks, Software Analytics, Independent Research | Lubbock, Texas August 2023 – May 2025 |
| Bells University of Technology <i>Bachelor of Engineering: Mechatronics Engineering</i> <ul style="list-style-type: none">CGPA: 4.51 / 5.0Relevant Courses: Artificial Neural Network, Applied Mechanics, System Design, Microprocessor Architecture, Engineering Ethics | Ogun, Nigeria September 2017 – August 2022 |

EXPERIENCE

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| Handshake <i>AI Fellow</i> <ul style="list-style-type: none">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. | September 2025 – Present |
| Texas Tech University <i>Teaching Assistant</i> <ul style="list-style-type: none">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. | January 2024 – May 2025 |
| Huawei Technologies Co., Ltd <i>Analyst, Data Integration & Communication</i> <ul style="list-style-type: none">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. | October 2022 – August 2023 |
| Huawei Technologies Co., Ltd <i>Tools Automation Intern</i> <ul style="list-style-type: none">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. | April 2021 – September 2021 |

SKILLS

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| 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

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](#))

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](#))