

North Carolina A&T State University <i>M.S. in Computational Data Science</i> <ul style="list-style-type: none">▪ GPA: 3.92/4.0▪ Concentration: Artificial Intelligence & Machine Learning▪ Relevant Coursework: Deep Learning, Advanced Interactive Visualization, Data Structures & Algorithms, Machine Learn & Data Mining	Aug 2023 - Dec 2025 <i>Greensboro, NC</i>
Babcock University <i>B.S. in Computer Science, Upper Second-Class Honors</i> <ul style="list-style-type: none">▪ GPA: 3.56/4.0▪ Relevant Coursework: System Analysis & Design, Software Engineering, Database Design & Management	Aug 2018 - July 2022 <i>Lagos, NG</i>

Skills

- Languages: JavaScript (React.js, Angular.js), Python, R, MATLAB, Java, C++
- Technologies: Node.js, React.js, Express.js, Vanilla JS, Docker, Linux, HTML/CSS, Spark, Git, OpenAI API, HuggingFace Hub
- Databases: MySQL, MariaDB, PostgreSQL, Microsoft SQL Server, MongoDB
- AI Frameworks: TensorFlow, PyTorch, Scikit-learn, Keras, OpenCV, BERT, RAG, Hugging Face, XGBoost, Quantization
- Data Science: Statistics, Data Modeling, Data Engineering, Statistical Modeling, Analytical Skills

Work Experience

North Carolina A&T State University <i>Graduate Research Assistant</i> Graduate Research Assistant Python, JSON, C++, ns-3, GridLAB-D, HELICS <ul style="list-style-type: none">▪ Directed the development of IreNatJson's attack-vector generation pipeline for power grid simulations, collaborating with research teams to refine simulation experiments and enhance cyber-physical security testing.▪ Integrated machine learning algorithms with rule-based logic to simulate power grid faults and cyber-attacks, utilizing statistical methods to inform simulation parameters within a dynamic GridLAB-D JSON (GLM) pipeline.▪ Engineered automated features for vulnerability injection, scenario generation, and simulation management, streamlining creation of diverse attack scenarios through Python scripting and JSON-based configuration.▪ Developed simulation orchestration scripts in GridLAB-D using Python and JSON, applying ML/AI techniques to evaluate experiment outcomes and improve smart grid resilience.GitHub	Sep 2023 - Dec 2025 <i>Greensboro, NC</i>
UpperLink Limited <i>Software Engineer</i> Software Engineer Intern Angular, MySQL, Python, HTML/CSS, JavaScript, Java <ul style="list-style-type: none">▪ Collaborated with a cross-functional team where I Architected and implemented a component library of 40+ reusable React.js UI components, reducing development time by 40% across 2 enterprise client projects in e-commerce.▪ Improved application reliability by writing unit and integration tests with Jest, increasing code coverage of key components by 20% and reducing post-deployment bugs.▪ Developed and consumed RESTful APIs to facilitate seamless data communication between the front-end client and back-end services, ensuring efficient data handling.▪ Achieved sub-second database response times for a high-traffic system handling over 10,000 daily transactions by implementing strategic query optimizations and indexing.▪ Managed code contributions and participated in peer code reviews using Git, to maintain quality and consistency across a 200k+ line codebase.	Aug 2022 - July 2023 <i>Lagos, NG</i>
Fidson Healthcare PLC. <i>IT Technician</i> IT Technician Microsoft Power Apps <ul style="list-style-type: none">▪ Maintained and repaired servers to ensure 99.9% uptime, supporting uninterrupted workflows and data reliability for staff operations.▪ Developed a bidding app in Microsoft Power Apps that reduced the internal bidding cycle by 30%, contributing to accelerated deal flow and enhanced team productivity.	Jan 2021 - May 2021 <i>Lagos, NG</i>

Projects

GPT-2 IMDB Fine-tuning & Eval Python, PyTorch, Hugging Face, Typer, Colab/GPU <ul style="list-style-type: none">▪ Built an end-to-end text-gen training toolkit (train/generate/evaluate CLIs) with reproducible Colab plus local flows; exported checkpoints and published a Hub model for reuse.▪ Exported final weights plus tokenizer and published model to the Hugging Face Hub: gpt2-imdb-tuned.▪ Implemented a robust perplexity evaluator; ~32.6 PPL on a 2k-sample IMDB test slice at max_len=512, enabling quick comparisons. GitHub
Conversational RAG System LangChain, LangGraph, FAISS, SentenceTransformers, Ollama, Python/Typer <ul style="list-style-type: none">▪ Built a reproducible RAG baseline over 10k Simple-Wikipedia pages (CPU embeddings via all-MiniLM-L6-v2 as the LLM).▪ Shipped CLIs rag-ask and rag-chat via console scripts.▪ Observed <250 ms FAISS retrieval (k=4, 10k docs, CPU) and ~7-11 s gen on a 1B local model (Ollama llama3.2:1b-instruct-q4_K_M). GitHub
Credit Card Fraud Detection Python, scikit-learn, XGBoost <ul style="list-style-type: none">▪ Built an end-to-end notebook: EDA - splits - Logistic/RF/XGBoost - probability calibration - PR-AUC reporting - business-cost thresholding and sensitivity.▪ I implemented a cost function and selected the operating threshold on validation to minimize expected total cost; evaluated on a held-out test set with low-FPR recall.▪ Produced calibration (reliability) curves, PR curves with the chosen operating point, confusion matrices, and a cost vs. threshold curve for auditability.▪ Achieved 93.1% precision at 0.10% alerts (≈102/100k) with \$4.08K cost high-precision mode, outperforming XGB-Cal at the same policy. GitHub
Deep Fake Detection with ELA-Enhanced CNNs TensorFlow, Keras, OpenCV, Transfer Learning <ul style="list-style-type: none">▪ Built a two-stage pipeline combining Error-Level Analysis (ELA) and custom CNNs to flag image forgeries on a curated 6 000-image Kaggle headshot set (50 % fakes).▪ Achieved 72 % test accuracy (+9 pp gain over a vanilla CNN) by pre-highlighting compression artifacts before feature extraction.▪ Benchmarked five transfer-learning backbones (VGG-16/19, ResNet-50, Inception V3, EfficientNet-B0); ELA-CNN matched VGG-19 while cutting inference latency 25 %.▪ Delivered Collab Pro notebook with GPU training, hyper-parameter search (batch, LR, optimizers) and confusion-matrix visualizations. GitHub
Healthcare Evaluation Framework Implementation Python, PyTorch, Hugging Face Transformers, Docker <ul style="list-style-type: none">▪ Engineered an extensible evaluation framework that scores large-language-model (LLM) healthcare chatbots across Accuracy, Trustworthiness, Empathy and Performance, fully aligning with the 2024 NIST/Stanford "Foundation Metrics for Healthcare Conversations" taxonomy.▪ Automated metric-pipelines (ROUGE, BERT Score, safety & bias probes, latency/FLOPs profilers) and a YAML-driven experiment launcher; supports both HF and AWQ/GPTQ-quantized models with <4 GB GPU RAM.▪ Integrated multiple LLMs, meta-Llama-3.2-1B and a 7 B AWQ-quantized Llama-2 baseline, delivering a 2-hour reproducible benchmark over 1 000 TriviaQA health questions. GitHub

Leadership & Community Involvement

- National Society of Black Engineers
- Babcock University Computer Club
- African Students Union