Abdulmalik Ajisegiri

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Education

University of Oklahoma **May 2026**
Master of Science in Systems Engineering, Focus in Advanced Analytics & Model Metaheuristics ***GPA: 3.8/4.0***
- *Relevant Courses:* GenAI Models, Risk Analytics & Metaheuristics, Model-Based Systems Engineering

University of Texas at Arlington **August 2024**
Bachelor of Science in Computer Engineering, Minor in Mathematics
- *Honors:* Dean's List X4 - Maverick CSE Academic Scholarship recipient - NextGen Leaders Scholarship recipient

Technical Skills

Risk & Analytics Tools: SAS Studio, MATLAB, Tableau, PowerBI, Scenario Analysis, Stress Testing, VaR Concepts
AI/ML & Modeling: LLM evaluation (BLEU, ROUGE, SBERT, NLI), Hugging Face, LangChain, RAG pipelines, Vector Databases, PyTorch, TensorFlow, scikit-learn, XGBoost, NumPy, Pandas
Programming Languages: Python, SQL, C/C++, JavaScript, TypeScript, HTML/CSS, React, Node.js
Systems & Developer Tools: AWS, GitHub, Jupyter, JIRA, Jama, Cameo Systems Modeler, Simulink, Docker, Postman

Experience

DTCC **August 2024 – Present**
Model Risk Engineer *Dallas, TX*
- Lead validator and product owner for Tier 2–4 AI/ML models, applying quantitative evaluation methods (including stress testing, benchmarking, and NLP-based metrics) to assess model robustness under varied market and risk conditions, improving benchmark accuracy and completeness by ∼30% across enterprise use cases.
- Applied SR 11-7 model risk principles to ensure proper governance, documentation, and control testing; collaborated with enterprise risk teams to evaluate model assumptions and reduced identified issues by ∼40% prior to deployment.

Collins Aerospace **August 2023 – July 2025**
Software Systems R&D Engineer (Secret Clearance) *Richardson, TX*
- Designed & developed an event-driven test harness in C++ to simulate 80+ RF command scenarios using CSV-based input, timed execution, and real-time message dispatch.
- Automated validation of frequency control across HF subsystems, reducing manual test time by 80% and supporting traceability for 300+ Jama requirements.

Deloitte LLP **May 2022 – August 2023**
Cyber Risk Intern *Houston, TX*
- Supported system risk aligning the EngineWise platform with NIST CSF standards; assessed control gaps, strengthened 5 REST APIs, coordinated incident response planning with 50+ developers to improve operational resilience.

Projects & Research

GenAI Risk-Bench Model | *Python, OpenAI API, SBERT, NLI* **Jan 2025 – Present**
∗ Built a validation framework to benchmark LLMs on financial prompts across trade logic, options pricing, and risk explanations; integrated BLEU/ROUGE, SBERT embeddings, and NLI to detect hallucinations, logic drift, and confidence gaps.

Metaheuristic Search Framework for Mixed Optimization | *Python, AMPL, Gurobi* **May 2025**
∗ Implemented SA, ILS, Tabu, GA, and PSO to solve 50+ multi-objective LP/IP problems; evaluated on feasible space coverage, convergence rate, and solution quality under randomized constraints.

Certifications

∗ **Certified Information Systems Auditor (CISA) ID: 242705748** Verify on Credly
∗ **MATLAB Certified** Certificate Link
∗ **Simulink Certified** Certificate Link

Leadership / Extracurricular

NSBE (National Society of Black Engineers) **2020 – Present**
Member
ISACA (Information Systems Audit and Control Association) **2024 – Present**
Member