

Michael Eniolade

Salem, OR | Open to Relocation

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SUMMARY

- Software Engineer/Data Scientist with 10+ years of experience designing, building, and deploying data pipelines, machine learning models, and cloud-native solutions across healthcare, telecom, government, and education sectors.
- Orchestrated complex ETL/ELT pipelines using Airflow, PySpark, dbt, Delta Lake, and Kafka, enabling automated ingestion, transformation, and large-scale data processing.
- Strong expertise in AWS (S3, Glue, Redshift, EMR, Lambda, SageMaker), Azure (Data Factory, Synapse, Databricks, Data Lake), and GCP (BigQuery, Vertex AI, Dataflow), with deep knowledge of infrastructure management, data warehousing, serverless computing, and CI/CD automation.
- Experienced in developing distributed applications with Spark/PySpark, Snowflake, and Data Lakehouse architectures, ensuring scalability and high availability.
- Skilled in Machine Learning & AI (Scikit-learn, TensorFlow, PyTorch, Hugging Face, LLMs, Generative AI, LangChain), with hands-on experience in MLOps tools (MLflow, Docker, Kubernetes, GitHub Actions, Terraform).
- Proficient in delivering interpretable analytics and visualizations using Tableau, Power BI, Matplotlib, Seaborn, and Plotly to drive actionable business insights.

PROJECTS

Health Syntra – AI Health Analytics Platform | [GitHub Link](#)

- Developed a full-stack AI-powered health platform with LLM-based symptom analysis using Google's Gemini 2.0 Flash for intelligent health assessments and recommendations.
- Implemented generative AI flows for symptom normalization and health history summarization, with comprehensive user authentication and Stripe subscription management.
- Next.js 15, TypeScript, Google Genkit AI, Gemini 2.0 Flash LLM, Firebase, Stripe, Radix UI, Tailwind CSS, React Query, Firestore.

Diamond Price Predictor | [GitHub Link](#)

- Built an end-to-end machine learning pipeline to predict diamond prices based on attributes such as carat, cut, color, and clarity.
- Responsible for data preprocessing, feature engineering, model training, and deployment of the ML pipeline.
- Python, Scikit-learn, MLflow, DVC, Airflow, Docker, Flask, Azure ACR.

MDUS (Multi-Doc Understanding) System | [GitHub Link](#)

- Built an AI-powered document processing system using LayoutLMv3 and Donut OCR for medical and business documents.
- Designed microservices architecture with FastAPI, React, PostgreSQL, Redis, and Docker, supporting real-time processing and secure deployment.
- Implemented a statistical testing framework with 95% confidence intervals, performance benchmarks, and end-to-end integration tests.

AI News Generator | [Live App](#) | [GitHub Link](#)

- Built an end-to-end AI-powered news aggregation and personalization platform that ingests updates from selected sources, generates concise digests, ranks stories per user, and prepares email-ready briefings.
- Implemented authenticated user workflows, profile-based personalization, source management, pipeline orchestration, and production deployment with scheduled jobs and cloud database integration.
- Next.js, TypeScript, Clerk, OpenAI API, PostgreSQL/Neon, Resend, Docker, Python, Vercel.

WORK EXPERIENCE

Mercor Intelligence., San Francisco CA | Senior Software Engineer

Nov 2025 – Present

- Designed ambiguity-focused evaluation specifications for AI coding models, mapping contextual signals across codebases to build structured ambiguity profiles that expose missing requirements, design gaps, and embedded contradictions, with defined ideal behaviour criteria spanning ambiguity detection, targeted questioning, assumption transparency, and API compatibility.
- Annotated SWE-Bench Pro V2 fail-to-pass tests by analysing requirements, implementation code, and test expectations to assess task fairness, classify AI failure modes, and record structured labels and evidence-backed justifications in Airtable.
- Evaluated AI-generated patches without code execution by comparing failure diffs against test expectations and requirements, producing concise, evidence-backed assessments that distinguish genuine engineering reasoning from surface-level code generation.
- Conducted structured A/B evaluations of AI coding agents on production-realistic TypeScript monorepo tasks, rating task success, code quality, and instruction-following while logging behavioural failure modes: including false test claims, skipped checkpoints, and agentic laziness: with severity-classified transcript evidence to support model benchmarking and reward-hacking detection.

Handshake., San Francisco CA | MOVE AI Fellow

Oct 2025 – Present

- Collaborate with AI researchers to evaluate and refine reasoning systems, ensuring transparency, integrity, and alignment of agent reasoning with defined machine learning objectives.
- Analyze and annotate AI ideation traces to assess scientific honesty, validity, and compliance with established research standards through systematic validation of reasoning steps and model outputs.
- Develop and modify Python-based machine learning workflows using scikit-learn and PyTorch, contributing executable code and analytical logic to advance experimental AI evaluation frameworks.

- Engineered multi-trap benchmarks for senior backend engineering evaluation using a multi-step API audit across multiple heterogeneous input files, with many calibrated traps targeting cross-file synthesis failures and fabrication tendencies in frontier models.

Professional Development., Salem OR | Career Break

Sep 2023 – Oct 2025

- Technical Upskilling: Advanced technical expertise in AWS, Azure, GCP, dbt, PySpark, Airflow, Docker, Kubernetes, and MLflow through structured learning and real-world applications.
- Pursuing a Ph.D. in Information Technology at the University of the Cumberland, focusing on applying AI and machine learning to healthcare cybersecurity, anomaly detection, and IoT security

Pyramid Systems Inc., Fairfax VA | Data Engineer Intern

Jun 2023 – Aug 2023

- Automated AI/ML pipelines using PySpark, Airflow, Delta Lake, and dbt, streamlining ingestion, transformation, and model training processes, which improved development efficiency by 30%.
- Built and demoed an AI-powered chatbot POC by integrating Python APIs, Hugging Face Transformers, LangChain, Dockerized microservices, and MLflow for tracking experiments and deployment.
- Enhanced data infrastructure by implementing CI/CD workflows (GitHub Actions, Docker, Kubernetes) and leveraging Snowflake, Kafka, and AWS S3/Glue to ensure clean, scalable, and reliable pipelines across teams.

UnitedHealth Group (UHG)., Eden Prairie MN | Quality Engineer

Feb 2022 - Sep 2022

- Improved claims platform reliability by resolving SLA-critical incidents with AWS CloudWatch and Jenkins, cutting downtime by 25%.
- Performed SQL-based data validations, backend tuning, and automated batch workflows to ensure stability.
- Partnered with operations and engineering teams for rapid hotfix deployment.

Deloitte LLP Portland, Oregon | Functional Analyst – Data Migration

Jun 2020 – Feb 2022

- Executed ETL pipelines and SQL-based validations for enterprise migration projects.
- Developed backend test plans and automation checks, reducing post-migration defects by 20%.
- Worked with stakeholders in Agile teams to accelerate migration milestones.

Dept. of Human Services, State of Oregon | Senior Consultant – Data Analyst/QA

Jun 2019 – Aug 2020

- Provided production support for healthcare applications.
- Built automation scripts for system shakeouts, cutting manual time by 40%.
- Improved system reliability through root cause analysis and nightly monitoring.

Edmin Inc., San Diego CA | Data Analyst

Jul 2018 – Oct 2018

- Automated Python-based analysis workflows, reducing manual effort by 25%.
- Delivered Tableau dashboards that accelerated decision-making.

Speedway Yearbooks Austin, TX | Senior QA Analyst

Feb 2017 – Jul 2018

- Conducted system testing and KPI monitoring, improving deployment success rates.
- Implemented real-time dashboards for performance tracking.

Rhythex Consulting, Lagos Nigeria | Revenue Assurance Analyst

Jan 2016 – Feb 2017

- Automated monitoring scripts for billing anomaly detection.
- Improved data accuracy and reduced downtime across telecom pipelines.

Etisalat., Lagos Nigeria | Revenue Assurance Analyst

Sep 2013 – Dec 2015

- Supported billing system reliability with automated alerts and B2B data validation.
- Reduced downtime by optimizing recurring processes.

SKILLS

- Programming & Data:** Python, SQL, R, Scala, Shell Scripting, Pandas, NumPy, SciPy, Java, C++
- Big Data & Pipelines:** Apache Spark, PySpark, Hadoop, Kafka, Apache Beam, Flink, Airflow, dbt, Delta Lake
- Cloud Platforms:** AWS (S3, Glue, Redshift, EMR, Lambda, SageMaker), Azure (Data Factory, Synapse, Databricks, Data Lake), GCP (BigQuery, Vertex AI, Dataflow, Pub/Sub)
- Databases & Storage:** Snowflake, PostgreSQL, Oracle, MySQL, MSSQL, DB2, MongoDB, Redis, Data Lakehouse
- Visualization:** Tableau, Power BI, Matplotlib, Seaborn, Plotly, Excel (Advanced)
- Tools & Frameworks:** Docker, Kubernetes, Jenkins, Git, GitHub Actions, Terraform, CI/CD Pipelines, REST APIs, GraphQL, Apache Superset
- Machine Learning/AI:** Scikit-learn, TensorFlow, PyTorch, XGBoost, LightGBM, Hugging Face Transformers, LLMs, Generative AI, LangChain, OpenAI API, Model Deployment (FastAPI, Flask), Feature Engineering, Experiment Tracking (MLflow, Weights & Biases)

EDUCATION

Ph.D., Information Technology

University of the Cumberland, Williamsburg, KY

Current

M.S., Data Analytics

McDaniel College, Westminster, MD

2023

M.S., Computer Information Systems

California Miramar University, San Diego, CA

2018

B.Tech., Computer Science

LAUTECH, Oyo, Nigeria

2010

CERTIFICATIONS

Oracle SQL | Oracle OCA | Database Specialist | OCI Architect | AWS Certified

VOLUNTEER

Braven (Leadership Coach): Coached early-career professionals on self-management, problem-solving, and adaptability.

NPower (Mentor): Guided mentees in IT troubleshooting and proactive system support, fostering career readiness.