

# Othniel Obasi

**AI Strategist | ML/LLM Product Architect | NLP & Fraud Systems Expert**

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## Summary

AI Strategist and Technical Product Specialist with 6+ years of experience delivering ML and LLM solutions across fintech, SaaS, and utility sectors. Proven track record in building and deploying fraud detection systems, explainable AI pipelines, and safety-hardened LLM applications. Adept at bridging product, engineering, and research with a focus on impact, clarity, and long-term scalability.

## Experience

### **AI Strategist - *Bezaleel Solutions***

**2023 - Present**

- Driving AI system design, LLM safety, and observability across mission-critical products.
- **NL→SQL Analyst Agent:** Designed and deployed an autonomous natural-language-to-SQL pipeline with 95 % parsing accuracy and 100 % execution success. Integrated LLM-as-a-judge (92 % clarity rating) and instrumented OpenTelemetry tracing into Arize Phoenix.
- **SaaS Support Bot Hardening:** Defined multi-tier safety rails for a billing support bot. Blocked 85 %+ of 50+ red-team vectors, maintained 100 % citation compliance, and reduced human escalations by 30 %.

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## **Technical Product Manager - ML - Creditville MFBank**

- Led ML-driven product development for fraud, risk, and customer intelligence in a digital finance ecosystem. **2022 - 2023**
- Delivered 3 ML services—fraud detection, sentiment analytics, and auto-loan decisioning—yielding double-digit efficiency gains.
- Built a modular explainability engine (LIME, DiCE) with visualizations and audit logs, integrated into a FastAPI fraud pipeline, cutting analyst triage time by 40 %.
- Deployed an NLP insights API using Word2Vec, LDA, and BERT summarization, reducing manual review by 50 %.
- Designed a risk-feature engine with real-time monitoring, reducing loan defaults by 20 %.

## **Lead, AI & Analytics - PHED (Power Holding Company)**

- Pioneered PHED's first AI/ML programs to modernize grid integrity, forecasting, and operational automation. **2020 - 2022**
- Built real-time energy-fraud model, reducing undetected loss by 25 %.
- Delivered cloud-based forecasting with 95 % confidence; accelerated budgeting cycle by 2 weeks.
- Automated workflows (Python, Power Automate), cutting manual work by 30 %.
- Built executive dashboards (Excel, Tableau, Power BI) processing 2 M+ records/month.

## **Senior Business Analyst & Product Owner - PHED**

- Orchestrated process redesign and digital transformation pilots to prepare for enterprise AI adoption. **2016 - 2020**
- Mapped 80+ processes via Lean redesign, cutting handoffs and incidents by 30 %.
- Coordinated IoT pilots across 42 units; co-designed PoC dashboards with tech partners.
- Founded a Change Management Committee; trained 200+ staff on new tools.

## Additional Roles (Part-Time Contracts)

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### Founding Technical Lead - AI/ML - *Tech Genius Solutions*

2024 - Present

- Driving prototype-stage AI infrastructure from fraud detection to SaaS-ready deployment across real-time systems.
- Architected real-time fraud system (Kafka → PyTorch → Neo4j), boosting ring recall by 28 %.
- Built explainability dashboards with audit-ready outputs.
- Automated retraining loops; reduced missed fraud by 17 % and enabled future SaaS scaling.
- Integrated adaptive biometric/MFA verifications, cutting false positives by 35 %.

### LLM Training & Evaluation Specialist - *Outlier AI &*

*Invisible Technologies*

Jan 2024 - Jan 2025 | Remote

- Executed high-throughput LLM evaluation and RLHF for two San Francisco (US) AI firms.
- Evaluated LLM outputs for bias, factuality, and safety; flagged 150+ issues.
- Created 300+ prompt-completion pairs with RLHF feedback, improving win rate by 11 %.
- Audited model behavior and applied prompt tuning and data augmentation for safety.

## Selected Projects - POC/Research

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### Fraud Detection via Logic Tensor Networks

- *Python • PyTorch • LTN • scikit-learn*
- Achieved 93.1 % MLP accuracy (5-fold CV); added fuzzy logic constraints using LTN.

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- Final logic-consistency score: 0.94; optimized CPU performance for 500-epoch runs.

## LexSynergy AI - Legal Decision System

- *Legal-BERT • LSTM • Neo4j • SHAP • RAG • FastAPI*
- 90 % accuracy in case-outcome prediction via hybrid neuro-symbolic model.
- Embedded neural outputs into Neo4j graph with Cypher-based retrieval.
- Applied SHAP/LIME for legal explainability on precedent- and statute-level insights.

## Distilled & Quantized ML Service (MNIST, Full Stack)

- *PyTorch • FastAPI • MLflow • W&B • PostgreSQL • Docker • GCP • GitHub Actions*
- Trained, distilled, and quantized a digit classifier achieving 98 % accuracy with sub-100 ms inference latency; tracked evaluation metrics using MLflow and W&B.
- Integrated predictions with PostgreSQL for persistent storage and analytics.
- Containerized with Docker, deployed on GCP, and automated CI/CD with GitHub Actions for zero-click updates.

## Technical Skills

- **Languages & Frameworks:** Python, FastAPI, PyTorch, scikit-learn, LSTM, Neo4j
- **ML/LLM Tools:** OpenTelemetry, Arize, SHAP, LIME, DiCE, RAG, RLHF, Word2Vec, BERT, MLflow
- **DevOps & Data:** Kafka, Pinecone, SQL, Power Automate, Tableau, Power BI, Docker, GCP, GitHub Actions
- **Specialties:** AI Strategy, Fraud Detection, LLM Safety, Neuro-Symbolic Reasoning, Explainable AI, ML Deployment & CI/CD

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## Education & Certifications

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- **M.Sc. in Financial Engineering** – WorldQuant University, US
- **M.Sc. in Applied AI & Data Science (Distinction)** – Southampton Solent University, UK
- Neo4j Certified Professional
- Applied Data Science: Scientific Computing & Python (Honors) – WorldQuant University

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