Oscar Ndugbu
Full-Stack Machine Learning Engineer
Nigeria Remote-First | Open to Hybrid/Onsite

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PROFESSIONAL SUMMARY

Full-stack ML engineer shipping production AI systems at scale. Built **SabiScore** serving **8,300+ concurrent users** with **73.7% prediction accuracy**, **99.94% uptime**, and **142ms response times**. End-to-end expertise: data engineering, ensemble modeling, MLOps, scalable backend/frontend, cloud infrastructure. Proven track record delivering measurable ROI through technical excellence and cross-functional collaboration.

TECHNICAL EXPERTISE

ML & Data: XGBoost, LightGBM, Random Forest, Neural Networks | TensorFlow, scikit-learn, PyTorch | Feature Engineering, A/B Testing, Model Monitoring
Backend: Python 3.11+, FastAPI, SQLAlchemy | PostgreSQL, Redis | ETL Pipelines, API Integration
Frontend: Next.js 15, React 18, TypeScript, Tailwind CSS, shadcn/ui, Chart.js | Edge Rendering
Infrastructure: AWS, GCP, Vercel | Docker, Kubernetes, CI/CD (GitHub Actions) | Prometheus, Grafana, Sentry
Blockchain: Web3.py, ethers.js | Multi-chain (Ethereum, Polygon, BSC) | Zero-Knowledge Proofs

PROFESSIONAL EXPERIENCE

SabiScore - AI Sports Prediction Platform *Remote*
Founder & Lead ML Engineer Jan 2023 – Present
End-to-end ownership of production AI platform serving 8,300+ concurrent users

- **ML Engineering:** Engineered 220+ features (rolling windows, momentum, H2H stats) and built weighted ensemble (XGBoost/LightGBM/RF) achieving **73.7% accuracy**, **84.9% precision**, **+18.4% ROI**, 0.184 Brier score
- **Backend:** Designed FastAPI microservices with PostgreSQL + Redis achieving **142ms response times**, **8,300+ concurrent users**, **99.94% uptime**
- **Frontend:** Built Next.js 15 UI with edge rendering, WebSocket streaming, Chart.js visualizations, **sub-150ms page loads**
- **MLOps:** Automated data ingestion (ESPN, Opta, Betfair), observability stack (Prometheus/Grafana/Sentry), CI/CD pipelines
- **Links:** sabiscore.vercel.app | github.com/Scardubu/sabiscore

Hashablanca - Enterprise Blockchain Platform *Remote*
Lead Full-Stack Engineer Jan – Jun 2024
Privacy-focused multi-chain token distribution system

- Architected enterprise platform for large-scale token distributions with privacy-preserving mechanisms and regulatory compliance
- Implemented RFC 8949 CBOR streaming for 4GB+ uploads with chunked/resumable transfers, solving critical scalability bottleneck
- Built unified interface for Ethereum, Polygon, BSC, StarkNet with EIP-1559 gas optimization and transaction batching
- Integrated Zero-Knowledge Proofs (Circom), AES-GCM-256 encryption, GDPR-compliant PII detection, **90%+ test coverage**
- github.com/Scardubu/hashablanca

Independent Practice *Remote*
AI Consultant & LLM Integration Specialist Jan 2024 – Present

- Reduced ML failure analysis time **60%** (10hr 4hr) for 5+ clients via automated debugging system combining ML diagnostics with LLM-powered root cause analysis
- Integrated GPT-4/Ollama/LangChain for natural-language explanations enabling non-technical stakeholders to trust AI decisions
- Consulted on AI strategy: LLM vs. traditional ML trade-offs, cost-benefit analysis, scalability planning, ROI-focused roadmaps

Sports Analytics & Data Engineering *Remote*
Independent ML Researcher Jan 2021 – Dec 2023

- Built automated pipeline gathering **100K+ data points** from 5+ APIs with rate-limiting and data quality validation
- Engineered **200+ features**: rolling stats, form trajectories, H2H metrics, fatigue modeling, home/away advantages

Universal Basic Education Commission *Anambra, Nigeria*
Senior Planning Officer 2014 – Present

- Built data dashboards improving decision-making efficiency **40%**; led 15+ member teams on infrastructure projects
- Part-time since 2021, concurrent with ML engineering projects

FEATURED PROJECTS & OPEN-SOURCE

SabiScore
- Production football intelligence platform with real-time ML predictions and analytics. github.com/Scardubu/sabiscore

Hashablanca
- Privacy-focused blockchain distributor with Zero-Knowledge Proofs, multi-chain support. github.com/Scardubu/hashablanca

Open Source Contributions
- Active contributor to XGBoost and scikit-learn: bug fixes, performance optimizations, documentation, community support

EDUCATION

Federal University of Technology Owerri   *Owerri, Nigeria*
Bachelor of Technology (B.Tech) in Technology   2006 – 2011

PROFESSIONAL DEVELOPMENT & CERTIFICATIONS

1,000+ hours structured learning | 50+ production projects | 2021 – Present

Completed: Kaggle (ML, Feature Engineering, Python, Pandas), Google ML Crash Course (TensorFlow), Coursera ML Specialization (Andrew Ng Stanford/DeepLearning.AI), 20+ courses in Deep Learning, MLOps, Full-Stack Development

In Progress: AWS Solutions Architect Associate, CKA (Kubernetes), Rust Programming, Advanced RAG Systems

WHY WORK WITH ME

End-to-End Ownership: Ship complete production systemsdata pipelines, model development, API design, frontend, deployment, monitoring. No handoffs needed.

Production-Scale Experience: Managed 8,300+ concurrent users at 99.94% uptime. Deep understanding of ML challenges: data quality, model drift, latency optimization, scalability.

Business-Technical Bridge: Translate complex ML into clear insights for executives and stakeholders. Focus on measurable ROI and business value.

Rapid Execution: Self-directed builder shipping fast. Comfortable with ambiguity, making pragmatic decisions balancing speed, quality, maintainability.

Cross-Functional Collaboration: Experience across product, engineering, business teams. Strong communication essential for ML leadership roles.

Seeking: Full-Stack ML Engineer | Senior ML Engineer | AI Engineer | MLOps Engineer