

# Oluwatobi Fredrick Ojeaburu

AI AUTOMATION SPECIALIST

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## 1 PROFILE

AI Automation Specialist with a B.Sc. (Ed) Economics Education (2:1) and TRCN teaching certification, building AI agents, automation workflows, and data systems that solve real business problems. Built and designed 20+ working projects across education, fintech, and cloud security: multi-agent content generators (CrewAI), n8n + Gemini automation suites, a full-stack campus intelligence platform, and agentic risk-intelligence pipelines. Combines the analytical rigour of an economist, the clarity of a certified teacher, and hands-on Python, LLM engineering, and AWS cloud skills. Concept developer for the Emerald Smart Campus Navigator and LCU Innovation Challenges; trained through the TS Academy AI & Automation programme.

## 2 CERTIFICATIONS

### AI & Automation

TS Academy

Under review — agentic workflows, LLM integration, no-code/low-code automation (n8n, Zapier, Make, Airtable).

IN PROGRESS

### AWS Certified Cloud Practitioner

Amazon Web Services

Foundations of cloud architecture, pricing, security and core AWS services.

CERTIFIED

### TRCN — Teachers Registration Council of Nigeria

Federal Ministry of Education, Nigeria

Registered professional teacher — Economics Education.

CERTIFIED

## 3 EDUCATION

### B.Sc. (Ed) Economics Education

Lead City University, Ibadan — Second Class Honours (Upper Division, 2:1)

**Degree under review** — result in final processing.

2026

### Kings College, Lagos

Secondary Education

### Foursquare Foundation School

Primary Education

## 4 CORE COMPETENCIES



## 5 SOFT SKILLS

### COMMUNICATION & PRESENTATION

Clear written & spoken communication, public speaking & teaching (TRCN practice, pitch decks), technical writing & documentation

### COLLABORATION & LEADERSHIP

Teamwork in cross-functional teams, stakeholder empathy, concept development & stakeholder pitching

### ANALYTICAL MINDSET

Critical & analytical thinking, research & problem-solving, data-driven decision-making

### ADAPTABILITY & GROWTH

Fast learning of new tools & frameworks, time management & self-direction, resilience & initiative

## 6 SELECTED PROJECTS

### Emerald Campus Intelligence Platform

LEAD DEVELOPER · FULL-STACK

Lead City University · Prototype — pre-production

- Designed a FastAPI + SQLAlchemy + SQLite backend with 15+ REST route modules across 18 geofenced campus zones (ingesting 500+ geofence events).
- Built a ~3,100-line vanilla JavaScript SPA covering wayfinding, timetables, shuttles, clinic queue, SOS alerts, Friend Finder, polls and campus businesses.
- Engineered an analytics engine: hourly occupancy forecasting, 30-day traffic lookback, and a Campus Friction Index.
- Integrated an AI health chatbot using retrieval-augmented generation (RAG) over clinic FAQs.

**STACK** FastAPI · SQLAlchemy · SQLite · Vanilla JS SPA · RAG · REST API

### SmartLesson — AI Lesson Bundle Generator

ARCHITECT · AI SYSTEMS

Independent product

- Orchestrated a CrewAI multi-agent system (4 agent crews) generating complete lesson bundles for 12 secondary-school subjects.
- Built subject-parameterized tools, auto-generated subject diagrams (matplotlib), and a step-by-step Streamlit dashboard.
- Multi-format export: Markdown, Word (.docx) and PDF.

**STACK** CrewAI · Groq (llama-3.1) · Streamlit · matplotlib · python-docx

## AI Automation Suite

AUTOMATION ENGINEER

TS Academy AI & Automation programme

- Automated email responder: Gemini classifies inbound mail (inquiry/complaint/order/spam) and drafts context-aware replies with a dual CSV + Google Sheets audit log.
- AI meeting-note taker: converts transcripts into structured summaries, key decisions, action items, owners and deadlines.
- AI social-media content manager: platform-optimised posts for X/LinkedIn/Instagram, content calendar and analytics.
- Smart invoice & document processor: document-type detection and structured field extraction with confidence scoring and human-review flagging.

**STACK** n8n · Google Gemini · OpenRouter · Google Sheets API · Flask · Streamlit · Telegram API

## Agentic Evidence-Intelligence Systems (EduSignal)

ARCHITECT · ML PIPELINES

Multi-domain platform family

- Built a reusable 4-stage agentic pipeline — Collect → Detect → Analyse → Govern — reused across domains.
- TF-IDF vectorization with greedy cosine-similarity clustering and three-way confidence routing (ACT / REVIEW / DISMISS).
- Composite priority scoring (confidence, volume, consistency, freshness) with stale-pattern detection and low-confidence promotion.
- Applied to education curriculum-friction detection (EduSignal).
- Two PII-protection layers: HMAC-SHA256 anonymisation (PrivacyShield) and NER-based redaction (NERShield).

**STACK** Python · scikit-learn · pydantic · FastEmbed · FastAPI dashboard

## FinSignal — Financial Services Evidence Intelligence

CONCEPT LEAD · DATA INTELLIGENCE

FinTech concept

- Applied the agentic evidence-intelligence pipeline to bank risk and compliance signals.
- Confidence-routed signal detection with P1-P4 severity scoring, sentiment classification, and an executive OverviewBoard.
- Authored the concept note and a python-pptx investor-grade slide deck.

**STACK** Python · scikit-learn · agentic pipeline · concept + pitch materials

## Finance Workflows — Fintech Automation Suite

DESIGNER · AI AUTOMATION

Design + reference implementation

- Designed five fintech automations on one shared agentic core: risk assessment, predictive analytics, fraud detection, credit scoring and customer-service automation.
- Per-domain detectors (real-time fraud rules + ML anomaly scoring; alternative-data credit scorecards) that interlink and feed one another.
- Specified a generic Banking Rails adapter — core-banking API, NIP transfers, USSD and agent network — so pipelines stay institution-agnostic.
- Delivered a pure-Python reference implementation with per-workflow dashboards.

**STACK** n8n (target) · OpenRouter · Google Sheets · Python pipeline core · dashboards

## AWS Security & DevOps Builds (Fundamentals)

CLOUD ENGINEER

5-project cloud-security portfolio

- Sentinel: secure Flask + SQLAlchemy CRUD platform with 72 passing tests and Terraform defining 60+ AWS resources (VPC, RDS, ECS, EKS, WAF, Secrets Manager, CloudWatch).
- ApexForge: Vite + React + TypeScript product site served on S3 + CloudFront + WAF with Origin Access Control.
- Lightsail Defender: 10-phase hardened production platform — CIS-inspired hardening, ModSecurity + OWASP CRS, CloudWatch monitoring/alarms, ECS + RDS + ElastiCache, backup and DR.
- CI/CD with GitHub Actions (OIDC), Ansible, Docker and CIS compliance scanning.

**STACK** Terraform · AWS · Docker · Ansible · GitHub Actions · Flask · React

## SkillShift & Nigerian EdTech Concepts

PRODUCT CONCEPT DEVELOPER

Innovation Challenge

- SkillShift: Gemini-powered AI career navigator that maps a student's curriculum to real job demand, issues verifiable skill badges, and feeds an employer talent pool (n8n workflow + PWA).
- Community Health Match: anonymous two-sided market-design matching mechanism (concept note + 7-slide pitch deck).

**STACK** n8n · Google Gemini · PWA · Market Design

## 7 ACHIEVEMENTS

- **Lead City University Innovation Challenge** (Clear Minds, Bright Future) — Community Health Match; **4th Prize Winner**.
- **CIPM Essay Competition 2026** — The Silent Competence Quit: agentic education-intelligence proposal on curriculum-industry gaps. **UNDER REVIEW**

## 8 TECHNICAL SKILLS

### AI & AUTOMATION

n8n, Zapier, Make, Airtable, CrewAI, LLM APIs (Gemini, OpenRouter, Groq), prompt engineering, RAG, embeddings, Telegram bots, Google Sheets & Gmail APIs

### DATA & ANALYSIS

Excel, pandas, numpy, scikit-learn (TF-IDF, clustering), time-series forecasting, SQL (SQLite, PostgreSQL), survey & questionnaire analysis, economic data research

### CLOUD & DEVOPS (FUNDAMENTALS)

AWS (S3, Lambda, CloudFront, RDS, ECS, Terraform, CDK), Docker, Ansible, GitHub Actions CI/CD, Nginx, Linux hardening (CIS), monitoring & alerting

### PROGRAMMING & WEB (FUNDAMENTALS)

Python (Flask, FastAPI, Streamlit), JavaScript, React/Vite, HTMX & Alpine.js, HTML/CSS, REST API design, Git & GitHub

### DOMAIN & PROFESSIONAL

Economics education, curriculum design, TRCN teaching practice, academic research & thesis production, market analysis, technical documentation

9 LANGUAGES

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English — Fluent

Yoruba — Native

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References available on request