

EA

Emmanuel T. Ayodele

Software & AI Engineer

I design and ship AI-enabled products, backend platforms and full-stack systems that turn complex workflows into clear, usable software.

ROLE FOCUS

Software & AI Engineering

Backend / Full-stack / Applied AI

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I turn complex workflows into dependable products.

My work connects product thinking, AI, backend architecture, security, operations and user experience.

Over more than ten years, I have worked across analysis, software engineering, machine learning, automation and technical consulting. I operate from product discovery through architecture and implementation, with a bias toward useful systems that can be tested, operated and improved. The five live products in this portfolio demonstrate applied AI, marketplace design, financial logic, privacy, workflow modelling and full-stack delivery.

5

live products featured

EVIDENCE-LED DELIVERY

CAPABILITY STACK

01

PRODUCT ARCHITECTURE

Translate a service idea into actors, journeys, rules and measurable outcomes.

02

AI AND RETRIEVAL

Build multimodal inference, RAG, structured outputs and explicit safety boundaries.

03

ENTERPRISE BACKEND

Design APIs, workflows, RBAC, tenant boundaries and asynchronous services.

04

OPERATIONAL DELIVERY

Use tests, containers, queues, monitoring and documentation to support execution.

DELIVERY SIGNALS

5

live products across distinct domains

4

diagnostic input modalities in AutoMedic AI

2

linked BullBear market experiences

6

economic roles coordinated by ReWorth

Five live platforms with a clear purpose.

Each case study highlights the product problem, system design, engineering decisions and a direct link to the live experience.

- 01

Otentic
A professional network where people share real failures, lessons, and discover media opportunities.

LIVE

PROJECT LINK
- 02

Automedic (by Kraftaa)
A Multimodal vehicle diagnostics and service marketplace.

4 MODALITIES

PROJECT LINK
- 03

BullBear Platform & Market Intelligence Chatbot
BullBear platform for Prediction markets, risk and settlement, with an AI-powered market intelligence platform that turns live stock probabilities, odds, and market data into clear insights anyone can understand.

2 LIVE LINKS

PROJECT LINK
- 04

Egoole
Egoole helps businesses find content creators and helps creators discover paid collaboration opportunities.

2-SIDED MARKET

PROJECT LINK
- 05

ReWorth
ReWorth turns household waste into cash while tracking and rewarding everyone in the recycling chain.

6 ACTOR ROLES

PROJECT LINK

PORTFOLIO THROUGH-LINE

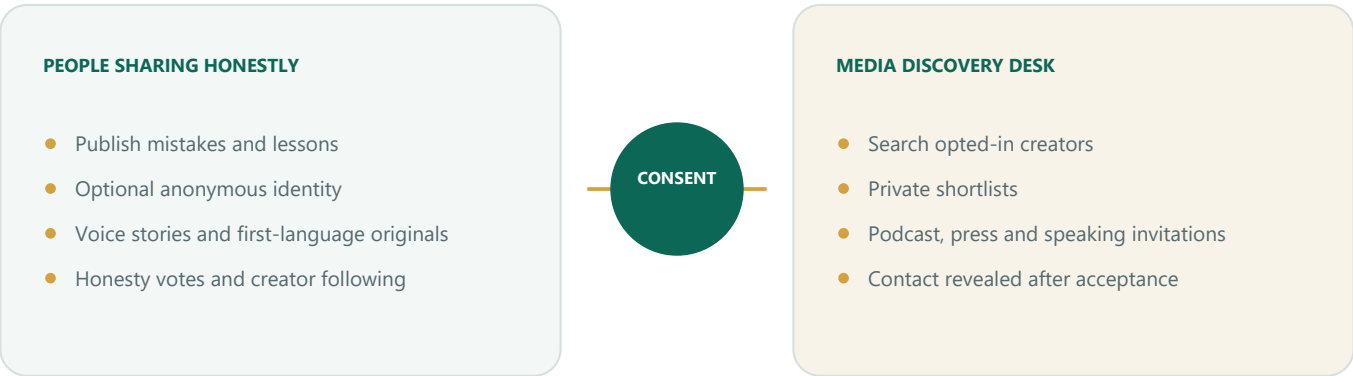
Each product makes a complex market easier to navigate: honest professional discovery, vehicle care, financial probabilities, creator partnerships or circular-economy value.

Otentic

A professional network where people share real failures, lessons, and discover media opportunities.

- COMMUNITY PLATFORM
- PRIVACY-AWARE AI

TWO-SIDED NETWORK



WHAT I ACHIEVED

AI STORY STUDIO

Opt-in transcription, same-language proofreading, privacy warnings, structure suggestions and faithful translation.

AUTHOR AGENCY

Preserves the first-language version, supports owner-only editing and offers one-click restoration.

ACCESSIBLE PRESENTATION

Paper, Night and high-contrast Clarity themes plus a user-controlled audio introduction and transcript.

OPPORTUNITY CONTROLS

Private invitations, request tracking and contact disclosure only after the creator accepts.

8

core data models

31

declared URL patterns

20

test functions

3

persistent appearance themes

VISIT OTENTIC

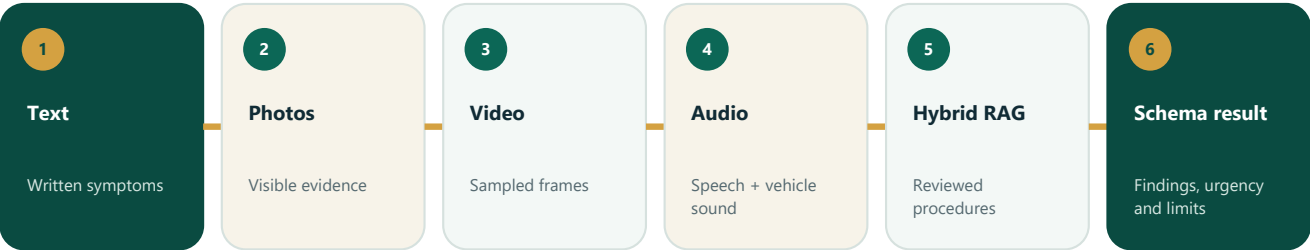
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A Multimodal vehicle diagnostics and service marketplace.

MULTIMODAL AI

SAFETY-AWARE

DIAGNOSTIC PIPELINE



WHAT I ACHIEVED

- Separated the Django product platform from the FastAPI inference service.
- Combined images, video frames, transcription and non-speech acoustic patterns.
- Returned schema-validated findings, urgency, safety notices, limitations and request IDs.
- Kept repair pricing deterministic and evidence-based rather than asking the model to invent costs.
- Implemented owner, mechanic and seller roles with vehicle ownership, booking and discovery flows.

RESPONSIBLE AI DECISIONS

- No silent fallback from OpenAI to mock output.
- Retrieved guidance supports reasoning but is not treated as proof.
- Multiple repair scenarios remain separate until evidence confirms a fault.
- The pricing layer can refuse a numeric estimate when evidence is insufficient.

4

evidence modalities

2

service architecture

3

marketplace roles

19

test functions

VISIT KRAFTAA

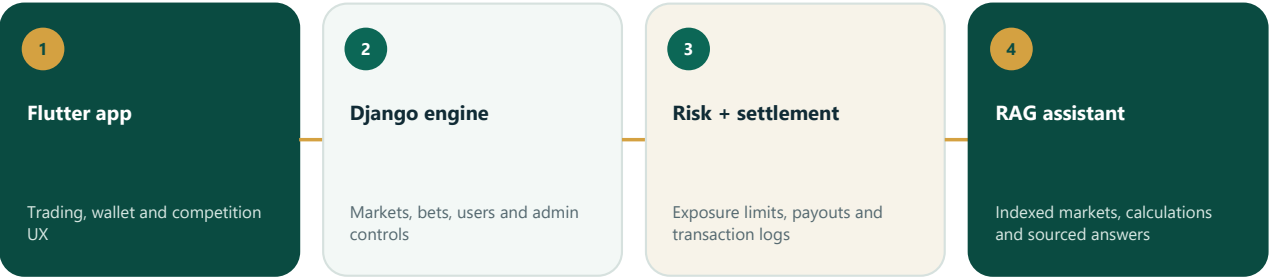
BullBear Platform & Market Intelligence Chatbot

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- FINTECH
- FULL STACK



SYSTEM FLOW



WHAT I ACHIEVED

- RISK-AWARE MARKET CONTROLS**

Implemented net-exposure logic so hedging can reduce risk and unlock a suspended market while tolerance limits remain enforced.
- RELIABLE SETTLEMENT PATH**

Specified bulk market resolution, single and parlay outcomes, wallet credits, transaction logging and repeat-safe payment checks.
- COMPETITION PRODUCT LAYER**

Added discovery, joining, entry fees, leaderboards and decimal-safe Flutter integration contracts.
- GROUNDING MARKET ASSISTANT**

Built a separate Django retrieval service that indexes markets, calculates scenarios and returns the exact supporting market rows.

3

platform layers

127

declared URL patterns

28

model classes

6

documented risk checks

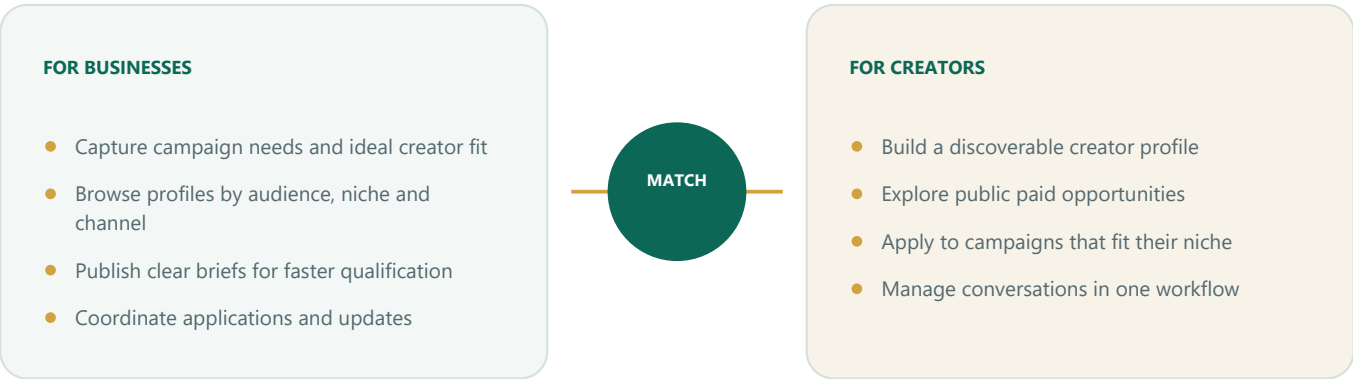
- OPEN BULLBEAR PLATFORM
- OPEN MARKET INTELLIGENCE

Egoole

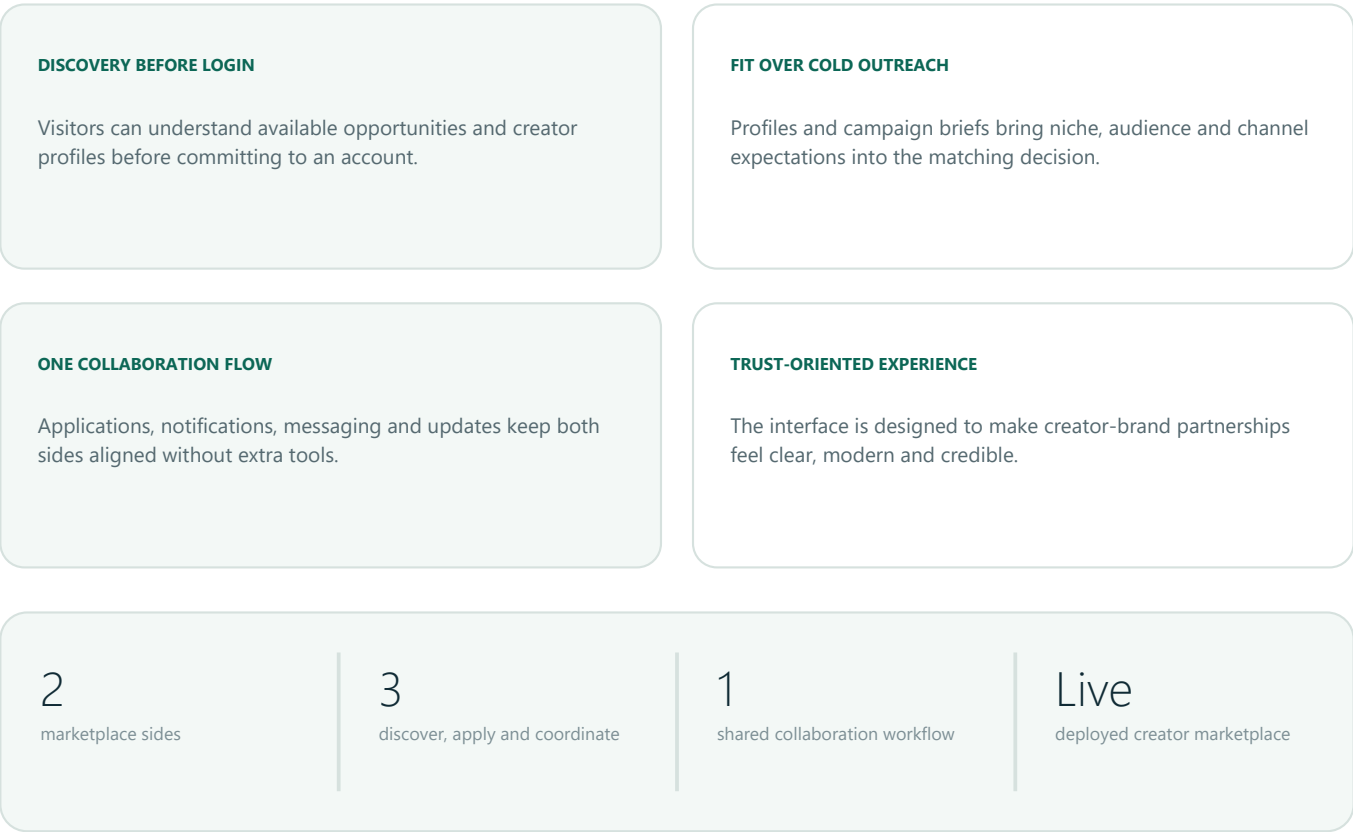
Egoole helps businesses find content creators and helps creators discover paid collaboration opportunities.

- CREATOR MARKETPLACE
- LIVE PRODUCT

TWO-SIDED OPPORTUNITY ENGINE



PRODUCT VALUE



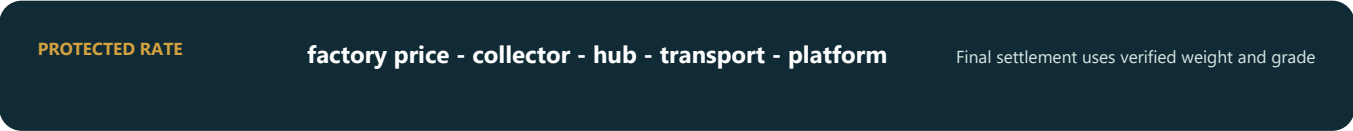
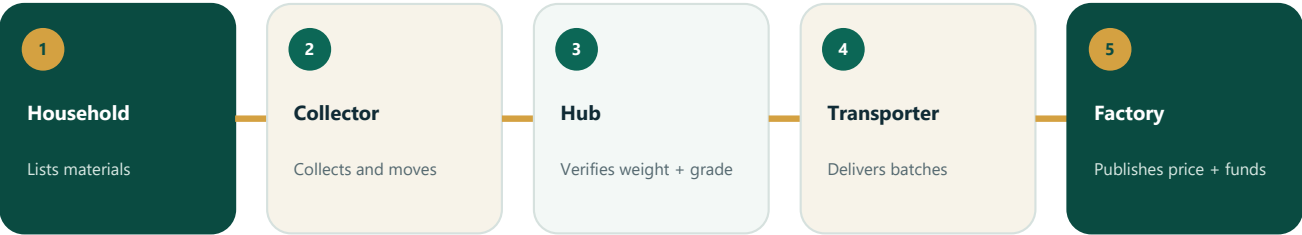
VISIT EGOOLE

ReWorth

ReWorth turns household waste into cash while tracking and rewarding everyone in the recycling chain.



VALUE CHAIN



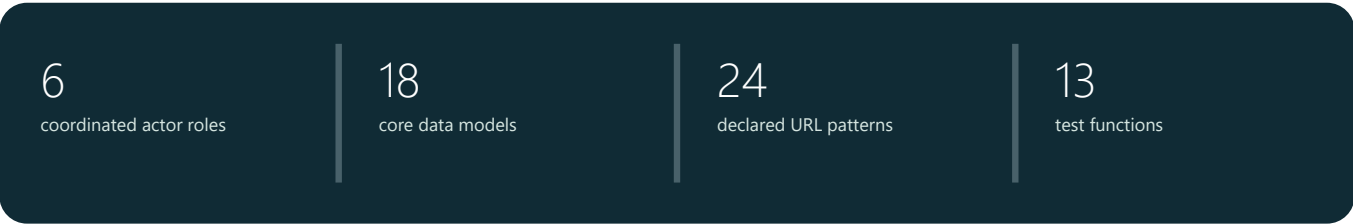
WHAT I ACHIEVED

- Made every actor's rate visible and protected the household from opaque bidding.
- Stored price snapshots so later market changes cannot rewrite an agreed estimate.
- Modelled chain-of-custody events, hub inventory, purchase orders and shipments.
- Created balanced settlement records and released payouts only when each milestone completed.
- Handled repeated confirmations and Paystack webhooks idempotently in test mode.

TRUST ARCHITECTURE

The product does more than match buyers and sellers. It records who handled the material, what was verified, which price was agreed, how funds were allocated and when each participant became eligible for payment. Government views provide an additional oversight perspective.

CHAIN OF CUSTODY / LEDGER / IMPACT DATA



VISIT REWORTH

What I bring to an engineering team

A product-minded engineering approach shaped by building responsible, interdisciplinary and operational systems.

WAYS I WORK

OWNERSHIP
Take a problem from discovery to a working product.

JUDGEMENT
Make trade-offs, constraints and risks explicit.

COLLABORATION
Build clear interfaces for users, teams and partners.

VALUE MAP

01

AI PRODUCT ENGINEERING
Multimodal inference, RAG and structured outputs

Ship useful AI features with traceability, guardrails and deterministic business logic.

02

BACKEND AND PLATFORM SYSTEMS
APIs, workflows, RBAC, queues and settlement

Design business-critical services around clear boundaries and reliable state transitions.

03

PRODUCT AND DOMAIN MODELLING
Actors, incentives, permissions and operational rules

Translate complex real-world processes into understandable software and user journeys.

04

DELIVERY AND QUALITY
Tests, containers, documentation and recoverable jobs

Make systems easier to review, operate, extend and hand over to other engineers.

Best fit: teams building AI-enabled products, platform services, marketplaces or workflow-heavy software.

[VIEW GITHUB](#)

[EMAIL EMMANUEL](#)

Live work and professional contact

Each button opens the corresponding product; BullBear includes separate platform and market-intelligence destinations.

01

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[OPEN LIVE PROJECT](#)

02

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[PLATFORM](#)[AI INSIGHTS](#)

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[OPEN LIVE PROJECT](#)

05

ReWorth

ReWorth turns household waste into cash while tracking and rewarding everyone in the recycling chain.

[OPEN LIVE PROJECT](#)**FIVE PROJECTS. SIX LIVE DESTINATIONS.**

Review the live products, then use LinkedIn, GitHub or email to discuss the engineering decisions, source work and potential fit for your team.

[LINKEDIN](#)[GITHUB](#)[EMAIL EMMANUEL](#)

LET'S CONNECT

Engineering for real problems. AI with clear boundaries. Products built to operate.

If your team is building an AI-enabled product, a workflow-heavy platform or a service that must connect technology to real operational value, I would welcome the conversation.

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Updated 30 July 2026 / Five featured projects with embedded live links.