

# AYITEY Kodjo Josue

Software Engineer / Data Scientist

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## Summary

Hi, I'm Kodjo Josué AYITEY (Yehoshua), a Data Scientist with a strong background in Software Engineering. With my software engineering background, I bring a unique perspective to data science, building robust and scalable solutions. My goal is to leverage data-driven approaches to solve real-world problems.

## Education

**BS University of Lome (EPL), Software Engineering** Lome, TOGO  
Comprehensive program covering software development, algorithms, data structures, database management, and software engineering principles. Oct 2021 – Aug 2025

- Theme: Implementation of an Alert System For Anticipation of Failures and Improvement of the User Experience on the Public Service Platform of TOGO
- Advisor: Prof. Sena APEKE
- GPA: 3.3 / 4.0, Honors: Upper Second-Class Honours

## Experience

**Togo Data Lab, Data Scientist** Lome, TOGO  
Feb 2025 – present  
1 year 2 months

- Applied MOSAIKS methodology to process large-scale satellite imagery, enabling efficient feature extraction for multi-task environmental monitoring.
- Architected and deployed the Sentiment Analysis System (SAS), a full-stack solution used by the Togo Digital Agency (ATD) to monitor public opinion.
- Spearheaded DZOLACYBER, a project focused on integrating Generative AI to bolster cybersecurity defenses for African SMEs.
- Developed a classification system to distinguish between agricultural and non-agricultural parcels across Togo using Google Earth Engine (GEE).
- Designed a Secure Authentication Infrastructure using SSL certificates integrated with Yubikey hardware security keys (SAMBA AD + EJBCA).

## Projects

**Competitions (formerly yhsml, y\_datascience\_projects)** Feb 2025 – present

Centralized hub for all my competitive data science and AI endeavors, spanning Natural Language Processing (NLP), Computer Vision (CV), and Machine Learning (ML).

- Ranked **2nd** out of **73** in [MPEG-G Microbiome Classification Challenge](#)
- Ranked **3rd** out of **93** in [Togo Fiber Optics Uptake Prediction Challenge](#)
- Ranked **3rd** out of **800** in [The 3LC Cotton Weed Detection Challenge](#)
- Ranked **27th** out of **387** in [Kenya Clinical Reasoning Challenge](#)

**Yehoshua Oxygen (formerly Zuno)** Jan 2026

Developed an AI-powered agent designed to independently participate or assist user in Kaggle competitions.

- Achieved a performance score of 17/18 in autonomous mode at the [Kaggle First Competition \(Exhibition\)](#).
- Features an intuitive admin UI for real-time resource monitoring and a flexible NLP layer supporting integration with Gemini and Grok models.

## Yehoshua Focus

Dec 2025 – Jan 2026

Worked on a personal thinking operating system designed to help clarify attention, structure thought, and support deliberate decision-making.

- Follow the principle of dogfooding: it is built first for personal daily use, to solve a real and recurring problem — lack of focus, scattered thinking, and unclear priorities.
- Trigger.dev: Used to schedule and orchestrate automated check-ins (morning, midday, evening, weekly).
- Resend: Used to deliver reflective prompts via email.

## Skills

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**Languages:** HTML/CSS, JavaScript, PHP, Dart, Python, C, C++, Java, Lua, Golang

**Frameworks:** React.js, Node.js, Django, Flutter, Vue.js, Next.js, Tailwind

**ML Frameworks:** Scikit-Learn, PyTorch, ONNX, MOSAIKS

**Tools:** Figma, Canva, Buddy, Git, VS Code, Anaconda, LabelStudio

**Databases:** Firebase, Supabase, SQL Server, PhpMyAdmin, PostgreSQL, MongoDB

**Concepts:** MVC, BLoC, SOLID, Clean Architecture, Agile & Kanban Project Management

**Soft Skills:** Collaboration, Problem-solving, Communication, Time management, Result-oriented

**Additional Skills:** Public Speaking, Writing, Research

## Conferences

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### India AI Impact Summit 2026

Theme: Welfare for all, Happiness for all

India (In-person)

Feb 2026

### Data Science Africa (DSA) 2025

Theme: Data Science for Social Good in the Age of Generative AI

Nigeria (In-person)

June 2025