

# Yannick Serge Obam Akou

## AI/Machine Learning Engineer

French and English

<https://www.linkedin.com/in/yannick-serge-obam> | <https://github.com/obeshor> | [yannicksergeobam@gmail.com](mailto:yannicksergeobam@gmail.com)

### CERTIFIED

**ML GCP** : GCP - Professional Machine Learning Engineer (ID: [q7xX5K](#))

**MOLPS** : Machine Learning Engineering for Production (ID: [D5RQLOBA3L8X](#))

**TENSORFLOW DEVELOPER** : Tensorflow Developer Certificate (ID: [32942121](#))

**TENSORFLOW ADVANCED** : DeepLearning.AI TensorFlow : Advanced Techniques (ID: [9ZMZPBWF7E5R](#))

**AI ENGINEER** : Artificial Intelligence Nanodegree (ID: [WCESLAGS](#))

**COMPUTER VISION ENGINEER** : Computer Vision Nanodegree (ID: [2F5U7RAC](#))

**DEEP LEARNING ENGINEER** : Deep Learning Nanodegree (ID: [TSPUCKZZ](#))

### TECHNICAL SKILLS

**Programming**: Python, Java, C++, kotlin, pyspark

**Management**: Agile, Monitoring/evaluation, git, gitlab

**Platforms** : Docker, kubernetes, GCP, Azure, AWS

**Data systems** : MySQL, PostgreSQL, MongoDB, BigQuery, kafka,

**Data Analytics**: Pandas, Matplotlib, Seaborn, knime, Tableau. **IA Libraries** : Scikit-Learn, Tensorflow, PyTorch, Keras, tuner

**MLOps**: MLflow, TFX, TFMA, kubeflow, Github Actions, Weights & Biases, Vertex AI, Tensorflow serving, CI/CD, DVC

**Provisioning and Configuration tools** : Terraform, Ansible, Jenkins, Gitlab-CI ,

### WORK EXPERIENCE

#### Miratech Group

##### MACHINE LEARNING CONSULTANT

- Freelance (Remote) -

New York, USA

2023 -- current

- Built machine learning models for various business applications in both public cloud and data center environments
- Developed tools to enable other engineers such as automated machine learning pipelines, machine learning model schedulers, and custom monitoring
- Designed deep learning models for image segmentation easily integrated into the complete chain of the embedded system
- Continuous Integration/Deployment Pipeline Integration, pull requests, code reviews, load/stress testing, unit/integration/e2e testing

#### NteALan

##### Lead DATASCIENTIST

- Contract (Remote) -

Douala, Cameroon

11/2022 - current

- Developed natural language Understanding tools (Chatbot , REST API, Morphosyntactic analyzers, lexical database)
- Employed advanced text mining algorithms to facilitate the identification of search intent latent in individual keywords
- Trained and supervised new members of the NLU

#### OpenClassrooms

##### MENTOR AI/MACHINE LEARNING ENGINEER, DATA SCIENTIST

- Part time (Remote) -

Paris, France

09/2020 - 06/2023

- Mentored 55 students from beginner in ML to proficiency
- Helped students to improve ML model accuracy for 12 projects from 60% to 98%
- Developed 49 student's individual learning skills

#### IsoMora Design & Dev

##### AI & ML ENGINEER

- Full time -

Yaounde, Cameroon

06/2019 - 06/2023

- Devised high-performance ML systems to detect abnormality, intrusion, fraud, masquerading and malware.
- Designed a deep learning model to detect and classify anomalies in the manufacturing process of 3+ industrial robots, reducing 80% of their monthly downtime
- Developed an algorithm to understand customer behavior leading to 95% success in targeted marketing campaigns
- Originated a recommendation engine to suggest an ideal cluster price for financial services
- Led a group of 3+ML Interns in producing a workable model to optimize the company's financial transactions
- Accelerated onboarding of junior ML engineers by coaching and peer work

#### Ministry of Secondary Education

##### SOFTWARE ENGINEER

- Full time -

Ebolowa, Cameroon

10/2011 - 12/2017

- Setup Continuous Integration and Continuous Delivering with Helm, GitLab-CI and Docker
- Develop school management software, solution with React Native, React, ExpressJS, Postgres and deploy on Azure

## EDUCATION

- Research Master in electronics, signals and images , University of Yaounde 1 2023
- Master 2 of Industrial Computer Engineering, University of Yaounde 1- ENSET Ebolowa 2019
  - Major in Computer Engineering Department
- Master Degree in Computer Science, University of Yaounde 2010
- Bachelor Degree in Computer Science, University of Yaoundé 2008

## SOME PROJECTS

- **Developed end to end open source's Android app for plant diseases detection using deep learning models**
  - Building advanced deep learning models with tensorflow, Deploying the best model to Android app
- **Built recommender system for ecommerce company**
  - Designing a Scalable products Recommender System on Google Cloud
  - Using serverless architecture with cloud functions, Tensorflow recommender, hybrid recommendation
- **Built a real-time fraud detection system on Google Cloud**
  - Using Vertex AI (store, deploy and monitor models), Feature engineering with BigQuery ( SQL for batch processing, Apache Beam using Dataflow for real-time processing), Vertex AI Feature Store, ML model with BigQuery ML, Vertex AI Pipelines to formalize your data to AI workflow
- **Built a machine learning model to predict customer churn for a telecommunication company**
  - Designing ML pipeline with TFX, Orchestrating and automating the ML pipeline using Vertex AI Pipelines, Setting up a CI/CD system for the ML pipeline using Cloud Build and Kubeflow Pipelines SDK, using TensorFlow Serving to create canary deployments.
- **Developed a chatbot to book holiday flights for travel agency**
  - Using LUIS, microsoft bot builder SDK, Azure application insight, Automated webapp deployment via GitHub, Unit tests
- **Implemented a "credit scoring" tool to calculate the probability that a customer will repay their credit, then classify the request as granted or refused credit**
  - Using MLFlow, GridSearchCV, SHAP, CI/CD pipelines with Github Actions, Pytest, FastApi , streamlit, Azure web, Evidently for data drift

## LEADERSHIP , AWARDS & VOLUNTEERING

Selected as one of 12 [Mentors and Interviewers at Google for Startups Accelerator: AI-First \(Africa\)](#) based on their experiences to lead AI/ML projects : The AI First program is designed for startups that are building products or services that use artificial intelligence in a transformative way. Sept — Nov 23

Selected as one of 32 [Mentors at Google Women Developer Academy - Francophone](#) aimed at increasing the diversity of speakers at technological events in the EMEA region July — Sept 23

Selected as one of 250 [RISING INNOVATOR at Tech Equity Collective Tech](#) (MLTx)

Selected as one of 114 [GOOGLE DEVELOPERS EXPERT IN MACHINE LEARNING](#) in the world 2020 — current

- Be speaker in [SSA keras community Day](#) on 26th August 2023
- Facilitate a [Workshop on Generative IA with Vertex IA](#) at Sherbrooke University in Canada , 12th August , 2023
- Work directly with code owners, and project managers at Google, with focus on the TensorFlow ecosystem.
- Write 08 [tutorials](#) for Machine Learning developers
- Supervise more than 50 young developers in ML and cloud
- Give more than 45 [talks](#) or Workshops across Africa in [Google Developer](#) and [Tensorflow community](#) conferences with more than 1000 attendees , SSA AI/ML communities such [Indaba](#).
- Community interviewer

Selected as one of 284 [Google Cloud Champion innovators](#), be part of Google Cloud Trusted Tester

### ORGANIZER OF [DEEP LEARNING INDABA CAMEROON](#)

2022 — current

- Facilitate conference and seminars for more than 1000 students and Professionals
- Give 13 talks/workshops on AI/ML topics

### FOUNDER AND MODERATOR OF [CAMEROON DATA COMMUNITY](#)

2022 — current

- Facilitate conference and seminars for more than 600 students and Professionals
- Supervise and mentor 60 young ML/AI enthusiasts
- Share learning resources, Tips and Tricks to get job

Twitter Recognition from [Google Cloud Tech](#)

Valuable Badges : [Cloud skills boost profile](#)