Loth NGASSA YIMGA

DATA SCIENCE, MACHINE LEARNING AND GENERATIVE AI INTERNSHIP

12 to 16-week internship starting 10 May 2027
Lille, France | ngassayimgal@gmail.com
Portfolio: lothngassa.com | linkedin.com/in/loth-ngassa-65b5853b9 | github.com/lothngassa | nexyalabs.com

PROFILE

Data and AI engineering student at JUNIA ISEN with a software engineering degree from the Polytechnic School of Douala (4th out of 126). I single-handedly built and launched NEXYA AI, a generative AI assistant on Google Play (LLM orchestration, RAG). I want to bring this experience to your data science, machine learning and generative AI projects.

PROFESSIONAL EXPERIENCE

NEXYALABS - Douala, Cameroon
FOUNDER AND DEVELOPER OF NEXYA AI - ENTREPRENEURIAL PROJECT **2026 - Present**

- Designed and built, on my own, NEXYA AI, a multi-expert generative AI assistant published on Google Play, in French and English: 6 expert modes live (computer science, science and maths, law, languages, etc.), 5 in preparation.
- AI orchestrator: analyses each request and automatically routes it to the most suitable language model (Gemini, Claude), with 3 power modes, voice, vision, image generation and PDF and Word document creation.
- RAG memory with PostgreSQL and pgvector, answers grounded in the user's own files: with RAG, the answer was rated better in 29 out of 30 blind tests.
- Fine-tuning of the open-source Gemma 3 4B model on 4 Cameroonian languages (Medumba, Duala, Bassa, Ewondo) for the Languages expert: translation and vocabulary learning, with dictation and read-aloud in the app (prototype).
- Flutter mobile app and FastAPI back end: 69 REST endpoints and 30 PostgreSQL tables, built for weak networks (offline cache, compressed responses, works on 2G).
- Deployed to production in May 2026: Docker on a Linux server, continuous integration with GitHub Actions, automated tests, monitoring with Prometheus and Grafana, GDPR compliance.

AB CONSULTING & SERVICES - Douala, Cameroon
SOFTWARE ENGINEERING INTERN - FINAL-YEAR INTERNSHIP **Mar 2026 - Jul 2026**

- Set up a document archiving system for the company.

JNB & BROTHERS CONSULTING - Yaoundé, Cameroon
IT INTERN - TWO SUMMER INTERNSHIPS **Summer 2024 and summer 2025**

- Installed and configured the Moodle e-learning platform, modelled a custom plugin in UML.

EDUCATION

JUNIA ISEN - Lille, France
MSC IN ENGINEERING - DATA AND ARTIFICIAL INTELLIGENCE **Sep 2026 - Expected 2028**

- Year 4 (MSc 1), taught in English: training and evaluating machine learning models (supervised and unsupervised), neural networks and CNNs with TensorFlow and Keras, inferential statistics, SQL and NoSQL.

NATIONAL HIGHER POLYTECHNIC SCHOOL OF DOUALA (ENSPD) - Cameroon
ENGINEERING DEGREE IN SOFTWARE ENGINEERING **Oct 2021 - Jul 2026**

- **Ranked 4th out of 126**, graduated with highest honours and the congratulations of the jury.

PROJECTS

INCUTRACK - STUDENT PROJECT TRACKING PLATFORM **2025**

- Application built on my own, used by ENSPD students to submit, track and assess their projects: Python back end and PostgreSQL, progress tracking.

BNPD - DIGITAL LIBRARY OF ENSPD THESES **2025**

- REST API with Django REST Framework, PostgreSQL, Supabase storage, deployed on Render, web front end.

SKILLS

Machine learning: Python, scikit-learn, TensorFlow, Keras, CNN, statistics
Generative AI: LLM, fine-tuning, RAG, prompt engineering
Data: SQL, PostgreSQL, pandas, NumPy, R, MongoDB, MySQL, Redis, Power BI, Excel
Back end and deployment: FastAPI, Django, REST API, Docker, Git, GitHub Actions, Linux, Prometheus, Grafana
Mobile and design: Flutter, Dart, React, Adobe XD, Photoshop, Illustrator
Certifications: TOEFL iBT (80/120, 2026), Big Data with Python, R and Power BI (IFPCE Yaoundé, 2024), Adobe Photoshop, Illustrator and XD (online course certificates), Python for Machine Learning (Udemy, in progress)

LANGUAGES AND INTERESTS

Languages: French (native), English (B2, TOEFL iBT 80/120, studies taught in English)
Interests: piano (2 years of practice, intermediate level), athletics (sprint and endurance, self-training)