

Ismaël Ariel Kagou

Manga

Data Scientist · Full-Stack Developer · Cloud Security Engineer

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Yaoundé, Cameroon · Remote Worldwide

PROFESSIONAL SUMMARY

Multidisciplinary engineer with 3+ years of hands-on experience across data science, full-stack development, and cloud security. ALX Africa certified data professional with a BSc in Computer & Software Engineering (GPA 3.6/4.0) from PKFokam Institute of Excellence, Cameroon. Real banking experience at Afriland First Bank — migrating enterprise BI systems, designing security controls, and building data pipelines that drove measurable business impact. Admitted to ESME Paris (MSc Cybersecurity Engineering, Sept 2026). Available for remote freelance contracts worldwide in data science, analytics, Python development, and frontend engineering.

CORE SKILLS

Languages	Python · JavaScript (ES6+) · SQL · Java · C · Bash
Data	Pandas · NumPy · Scikit-learn · NLP · Power BI · SAP BI · Tableau
Web / Front	React.js · Next.js · HTML5 · CSS3 · Tailwind CSS · Django · Flask · FastAPI
Cloud & DevOps	AWS (EC2, S3, IAM, Lambda) · Docker · Git · GitHub Actions · Linux
Databases	PostgreSQL · MySQL · MongoDB · SQLite
Security	Network Security · PCI DSS basics · IAM · Risk Analysis · SIEM
Soft Skills	McKinsey Problem-Solving · Agile Leadership · French (Native) · English (Professional)

PROFESSIONAL EXPERIENCE

Business Intelligence Engineer (Intern)

Afriland First Bank

Jun 2024 – Aug 2024

Yaoundé, Cameroon

- ▶ Migrated SAP BI 4.3 enterprise platform, improving data accessibility and reporting efficiency by **30%** across 15+ financial reports
- ▶ Designed and implemented role-based access controls (RBAC), reducing security breaches by **25%** within the first month of deployment
- ▶ Built dimensional data models to ensure consistency across financial reporting systems used by senior management
- ▶ Created 50+ pages of bilingual (FR/EN) technical documentation and training materials, accelerating user adoption for **200+ employees**
- ▶ Collaborated with cross-functional IT and compliance teams to align BI architecture with banking regulatory requirements

Software Engineering Program — ALX Africa

ALX Africa (Holberton-based)

2023 – 2024

Remote

- ▶ Completed 8+ months of intensive, project-based SE curriculum: 2,000+ Git commits, 180M+ automated project checks
- ▶ Built production-ready projects in C, Python, JavaScript, with full-stack architecture and Linux system administration
- ▶ Developed strong foundations in algorithms, data structures, OOP, REST APIs, and DevOps practices

- ▶ Finished self-paced track after initial cohort, demonstrating resilience and self-direction in a demanding engineering environment

Bytes Club Lead — Tech Community

PKFokam Institute of Excellence

2022 – 2026

Yaoundé, Cameroon

- ▶ Organized and led 10+ technical workshops on data science, cloud computing, and software engineering for **150+ peers**
- ▶ Designed AI-powered educational curriculum to address tech literacy gaps in Cameroon — **Harvard Aspire Leaders Program** project
- ▶ Mentored junior students in Python, SQL, and machine learning fundamentals

SELECTED PROJECTS

AI-Driven Student Workflow Manager

2024

Full-Stack · NLP · Django · React

- ▶ Built Python web application with Google Calendar API integration and NLP-powered study pattern analysis
- ▶ Reduced missed academic deadlines by **40%** for 500+ active student users; adopted by student body at PKFokam
- ▶ Stack: Django, React, Python NLP (spaCy/NLTK), PostgreSQL, Google Calendar API, Docker

Healthcare Data Analysis Dashboard

2024

Power BI · Python · SQL

- ▶ Designed and built a Power BI dashboard tracking patient outcomes, resource allocation, and operational KPIs
- ▶ Dashboard adopted by a local Yaoundé clinic to optimize staff scheduling and reduce resource waste
- ▶ Stack: Power BI, Python (Pandas), SQL, Excel data modeling

SAP BI Migration & Documentation System

2024

SAP BI · Data Engineering · Technical Writing

Afriland First Bank

- ▶ Led technical documentation for enterprise BI migration — 50+ pages of bilingual (FR/EN) user guides and API references
- ▶ Slashed system onboarding time by **50%** through structured training materials and walkthrough documentation
- ▶ Implemented automated reporting workflows replacing manual Excel processes across 15 financial report categories

EDUCATION

MSc Cybersecurity Engineering (Incoming)

ESME Engineering School

Starting Sept 2026

Paris, France

- ▶ Specializations: Cloud SecDevOps · Penetration Testing · Cryptography · AI Security · Digital Forensics
- ▶ National Diploma of Engineering — internationally recognized as a Master's Degree of Engineering

BSc Computer & Software Engineering

PKFokam Institute of Excellence

2022 – 2026

Yaoundé, Cameroon

- ▶ **GPA: 3.6 / 4.0** · Relevant coursework: Machine Learning, Database Systems, Cloud Computing (AWS), Data Structures

- Leadership: Bytes Club Lead (tech community), Harvard Aspire Leaders Program, McKinsey Forward Program

CERTIFICATIONS

Data Analytics — <i>ALX Africa</i>	2024	Earned
Data Science — <i>ALX Africa</i>	2024	In Progress
AI Career Essentials — <i>ALX Africa</i>	2024	Earned
McKinsey Forward Program — <i>McKinsey & Company</i>	2024	Earned
Harvard Aspire Leaders Program — <i>Aspire Institute / Harvard</i>	2024	Earned
AWS Cloud Practitioner (CLF-C02) — <i>Amazon Web Services</i>	2026 target	Upcoming
CompTIA Security+ — <i>CompTIA</i>	2026 target	Upcoming

ADDITIONAL INFORMATION

Languages: French (Native) · English (Professional) · Chinese (Basic)

Availability: Immediate · Remote worldwide · UTC+1 (WAT) — flexible for EU/US time zones

Interests: Financial technology security · Open-source contributions · Tech literacy in Africa · Writing tech articles
