

ISMAËL ARIEL KAGOU MANGA

Cybersecurity Engineer · Cloud & Data · Financial Sector Focus

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[LinkedIn](#) · [GitHub](#) · [Portfolio](#)

PROFILE

Cybersecurity engineer working at the intersection of cloud security and finance. I came up through software and data — I built the access controls inside a bank and now lead quality and security review on a live pan-African platform — and I'm specializing in cybersecurity at ESME Paris while completing a master's in financial engineering. My aim is simple: help financial institutions secure their move to the cloud in a way that satisfies both their engineers and their regulators, because I can speak to both.

CORE SKILLS

Cloud & Security: AWS (EC2, S3, IAM, Lambda) · IAM & RBAC · Keycloak (OAuth2/OIDC) · Docker · Linux · Network Security · zero-trust principles

Languages: Python · JavaScript/TypeScript · SQL · Java · C · Bash

Data & BI: Pandas · NumPy · scikit-learn · Power BI · SAP BI · time-series forecasting

Web & DevOps: React · Next.js · Spring Boot · Django · FastAPI · REST APIs · Git · GitLab CI/CD · Jest

Languages: French (native) · English (professional) · Chinese (basic)

EXPERIENCE

QA / BA Lead & Full-Stack Engineer (Academic Intern) — KANU — PKFokam Research Center

Mar 2026 – Aug 2026 · Yaoundé, Cameroon

- Largest individual contributor to a trilingual microservices platform (Next.js / Spring Boot / Keycloak / PostgreSQL / Docker), across front-office, back-office, and shared packages.
- Led the security and business-logic review, documenting critical authorization gaps — client-side role checks never re-enforced server-side — and driving remediation across findings F-01 to F-09.
- Owned QA across an automated test suite run on every CI pipeline; built functional checklists and structured 60+ GitLab tickets across sprint milestones.

Business Intelligence Engineer (Intern) — Afriland First Bank

Jun 2024 – Aug 2024 · Yaoundé, Cameroon

- **Reduced security breaches by 25%** in a production banking environment by designing role-based access controls on zero-trust principles.
- **Improved reporting efficiency by 30%** for senior management by migrating the SAP BI 4.3 platform across 15+ financial report categories.
- Built dimensional data models for regulatory compliance and authored 50+ pages of bilingual (FR/EN) documentation onboarding **200+** employees.

Software Engineering Programme (Full-Stack Track) — ALX Africa

2023 – 2024 · Remote

- 8+ months of intensive, project-based engineering: a custom Unix shell in C, full-stack builds, and data-driven web apps.

Founder & Lead — Bytes Club — PKFokam Institute of Excellence

2022 – 2026 · Yaoundé, Cameroon

- Founded the student tech community: 10+ workshops for 150+ peers; mentored juniors in Python, SQL, and ML.

SELECTED PROJECTS

- **PKFe-Hub — AI Information Gateway.** Production RAG assistant (LangChain, React, Node) with JWT auth, rate limiting, and input sanitisation — real security engineering on a live app.
- **JobSeekers Analytics — ML pipeline.** End-to-end recruitment model (Python, scikit-learn, FastAPI); classification techniques transferable to fraud detection and risk scoring.
- **Sales Intelligence Dashboard.** Interactive analytics with anomaly detection and forecasting — transferable to financial transaction monitoring.

EDUCATION

- **Cybersecurity Engineering (INGE cycle, CTI / RNCP Level 7)** — ESME Paris · 2026–2028. Cloud SecDevOps, penetration testing, cryptography, AI security, digital forensics.
- **MSc Financial Engineering** — WorldQuant University · in progress. Quantitative finance, risk modelling, derivative pricing — pursued to bridge cybersecurity and finance.
- **BSc Computer & Software Engineering** — PKFokam Institute of Excellence · 2022–2026 · GPA 3.6/4.0.

CERTIFICATIONS & HONORS

- **Gaylord E. (Gary) Christle Scholarship** — PMI Educational Foundation, 2026. Single-recipient named award, selected from 450+ applicants worldwide.
- **Aspire Leaders Program (Cohort 3) & AI-Integrated Leadership Program** — Aspire Institute, 2024 & 2026. One of 3,675 finalists from 26,650 applicants.
- **AWS Cloud Practitioner & CompTIA Security+** — in progress, 2026. **Certified Data Science Professional** — OdinSchool, 2025. **McKinsey Forward Program**, 2024.