

# Seidu Ramadhan Hussein

Dubai, UAE | Accra, Ghana

AI Systems Architect | GovTech Builder | Founder, AlforGhana

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"The future of democracy will not only be debated in parliaments — it will be measured in dashboards."

## PROFILE

I build production AI systems that run at national scale. Founder of AlforGhana, deploying nine data-driven systems across 16 Ghanaian regions for ministries, agencies, and citizens. Five years in production: Spark/Kafka pipelines at 1TB+ daily, MLOps on AWS/Azure, NLP in five languages, real-time dashboards presented to government officials. Author of three books on GovTech, data engineering, and AI. Currently Head of Digital Strategy & AI Innovation for a global aviation association and Emirates Aerosports Federation in Dubai.

## EXPERIENCE

### Head of Digital Strategy & AI Innovation

Jun 2025 – Present

Global Aviation Association & Emirates Aerosports Federation — Dubai

- Leading digital transformation and AI strategy for international aviation operations.
- Designing data infrastructure, analytics platforms, and AI-driven operational systems.
- Overseeing digital programme delivery across federation operations and member engagement.

### AI & Data Science Specialist / Big Data Engineer

Feb 2023 – May 2025

Top Prestige Technologies — Dubai

- Deployed 10+ production ML models on AWS/Azure; +22% accuracy, -35% latency.
- Built Spark/Kafka/Airflow pipelines processing 1TB+ daily for near real-time analytics.
- Implemented Docker, Kubernetes, MLflow CI/CD for reproducible model delivery.
- Designed C-level executive dashboards; GDPR-aligned workflows, audit readiness.

### Founder & AI Systems Architect

2023 – Present

AlforGhana — Dubai / Accra

- Architected 9 live civic systems across Ghana's 16 regions.
- ZK-proof identity (GH-PASS), civic sentiment platform, Police Smart OS, NHIA health intelligence, procurement integrity monitor.
- Systems in active government pilot; presented to ministerial stakeholders.

### ML Engineer & General Manager

Apr 2021 – Jan 2023

Trigger Motion Picture — Dubai

- Fraud detection model F1-score 0.92. Ensemble learning +25% marketing ROI.
- Data governance +30% dataset quality. Docker+CI/CD deployments -40% latency.

### English Language Trainer

2016 – 2020

Embassies & Government Institutions — Khartoum

- Business English & IELTS for diplomatic and professional teams.

## AIFORGHANA — 9 LIVE SYSTEMS

### S■■ Ghana

#### GH-PASS

#### AlforGhana Civic OS

#### Police Smart OS

#### Rent Monitor

#### AurumPass

#### Gulf2Ghana

#### Smart Complaint

#### NOIP / NHIA

Civic Intelligence — 9 modules, real-time, 5 languages  
Sovereign Identity — ZK proofs, BBS+, wallet  
Governance OS — 16 regions, procurement, SLA  
Command suite — dispatch, evidence vault, Crisis Mode  
Housing intelligence — anomaly detection, heatmaps  
Event platform — QR, anti-fraud, multi-tenant  
Cross-border trade — AI listings, escrow, compliance  
Multilingual AI — 5 languages, SLA, escalation  
Health intel — fraud shield, digital twin, audit

## TECHNICAL SKILLS

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<b>AI/ML</b>	TensorFlow, PyTorch, scikit-learn, Transformers, NLP, Computer Vision
<b>Data Eng.</b>	Spark, Kafka, Airflow, Hadoop, dbt, ETL, HDFS, NoSQL
<b>MLOps</b>	Docker, Kubernetes, MLflow, CI/CD, Terraform, feature stores
<b>Cloud</b>	AWS Certified, Azure — pipelines, deployment, dashboards
<b>Dev</b>	Python, SQL, TypeScript, R, Bash, Next.js, FastAPI
<b>Civic AI</b>	ZK proofs, BBS+, blockchain audit, multilingual NLP
<b>Analytics</b>	Power BI, Tableau, Chart.js, Leaflet, Recharts

## EDUCATION

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**MSc Data Science (Merit)** 2022  
Middlesex University Dubai

**BSc Computer Science (Good)** 2019  
International University of Africa, Khartoum

**CELTA (Level 5)** 2020  
Cambridge Assessment English

## CERTIFICATIONS

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- AWS Certified Big Data Specialty (Sep 2023)
- Big Data Engineer — MSc-equivalent (Simplilearn, Jan 2025)
- AI Engineer — MSc-equivalent (Simplilearn, Sep 2023)
- Deep Learning & Computer Vision Specialist
- NLP Certification
- MongoDB Developer & Admin
- Hadoop/Spark Training
- Statistics Essentials · Python for Data Science

## PUBLICATIONS (IN PROGRESS)

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- *Applied AI & MLOps: From Idea to Deployment*
- *The Pragmatic Data Engineer: Scalable Systems in the Age of AI*
- *The Algorithmic State: AI, Transparency, and Governance*

## LANGUAGES

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English — C2 Proficient | Arabic — C2 Proficient

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Available for GovTech pilots, senior engineering roles, and technical partnerships  
aiforghana.com | triggerdxb.com | topprestigetech.com | github.com/RamadhanAI  
References available on request