

# Kamogelo Mahoma | Full-Stack Python Developer — Internal Tools & Web Applications Specialist

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## Professional Profile

Full-Stack Python Developer with **5 years** of experience building internal tools, web applications, and analytics platforms that empower teams and drive business success. Expert in **Python web frameworks** (FastAPI, Django, Flask-ready), **responsive frontend development** (JavaScript, HTML5, CSS), and **collaborating with data scientists** to transform complex datasets into intuitive user experiences.

Proven track record delivering **production-grade systems** with **99.95% uptime**, building **12+ Python web applications**, and improving system performance by **40–93%**. Skilled in the complete modern stack: **Docker containerization**, **Azure cloud deployment**, **SQL databases**, **CI/CD pipelines**, and **security best practices**. Passionate about creating elegant, user-first tools with a practical approach and excellent communication across technical and business teams.

## Technical Proficiencies

**Backend:** Python (5 years - FastAPI, Django, Flask-ready), pandas, REST APIs, Microservices

**Frontend:** JavaScript, HTML5, CSS, TypeScript, Angular, Responsive Design

**Databases:** PostgreSQL, MySQL, MS SQL (transferable), ClickHouse, Redis

**Cloud & DevOps:** Docker, Azure, AWS (learning), Kubernetes, CI/CD, Linux

**Data:** pandas, Power BI, Data Visualization, ETL, Working with Data Scientists

**Security:** OAuth2/JWT, RBAC, Keycloak SSO, Security Best Practices

**Monitoring:** Prometheus, Grafana, ELK Stack, Logging Infrastructure

**Methodologies:** Agile/Scrum, User-First Design, DataOps Principles

**Certifications:** IBM Data Science (2023), Google Project Management (2023)

## Professional Experience

### Nymbis Cloud Solutions

Remote

Jan 2023–Present

Full-Stack Python Developer & Technical Lead

#### Internal Tools & Web Applications

- **Led StreamlineX development:** Internal HR platform with **99.95% uptime, 40% page load improvement**
- Backend: Python/FastAPI REST APIs, MySQL, Redis caching, JWT authentication
- Frontend: Responsive Angular/TypeScript UI with lazy loading and modern design
- Security: 4-layer architecture (RBAC, OAuth2, Keycloak SSO)
- Deployment: Docker/Kubernetes with CI/CD pipeline automation
- **Built 12+ Python web applications** for automation and workflow management
- Developed responsive frontends using HTML5, CSS, JavaScript

#### Data Collaboration & Analytics

- **Collaborated with data teams** transforming datasets into web applications

- **Built oVirt automation:** Python tools for billing, reporting, infrastructure
- **Developed ClickHouse analytics platform** processing **1M+ daily transactions**
- Used pandas for data processing and transformation
- Created data visualization interfaces for business users

### **Performance & Reliability**

- Optimized applications achieving **40% throughput improvement**
- Reduced ETL runtime by **93%** (4hrs → 15min) using pandas/PySpark
- Implemented monitoring across 50+ services (-65% incident detection time)
- Established CI/CD pipeline reducing deployment failures by **20%**

### **Security & Compliance**

- Implemented OAuth2/JWT authentication, RBAC for user permissions
- Input validation, SQL injection prevention, HTTPS/TLS encryption
- Security audit logging and monitoring

### **Airlift Technologies**

*Data Scientist & Python Developer*

**Remote**

Jan 2021–Dec 2022

- Developed Power BI dashboards improving decision-making by **20%**
- Built automated reporting in Python (pandas) saving **25+ hours/month**
- Optimized SQL queries from **20s to <500ms** (97% improvement)
- Designed ETL workflows integrating multiple data sources
- Implemented data quality validation increasing reliability by **15%**
- Collaborated with clients maintaining **90% retention, 95% satisfaction**
- Translated technical concepts for non-technical stakeholders

## **Key Projects**

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*StreamlineX Enterprise Platform*

2023–2025

- Full-stack: Python/FastAPI backend + Angular/TypeScript frontend
- Security: RBAC, OAuth2, JWT, SSO (Keycloak)
- Deployment: Docker/Kubernetes with 99.95% uptime
- Impact: Empowered 100+ internal users across departments

*oVirt Cloud Automation Suite*

2024–2025

- Billing automation: Python scripts, invoice generation, PostgreSQL
- Reporting: Custom Excel reports with openpyxl
- Logging: Fluentd/Python sidecars for ELK stack

*Enterprise Monitoring System*

2025

- Prometheus/Grafana across 50+ microservices
- 50+ alert rules, 40% reduction in false positives
- Impact: 65% faster incident detection

*Data Pipeline Optimization*

2023

- PySpark optimization: 4 hours → 15 minutes (93%)
- Python/pandas processing, validation, quality checks

*Business Intelligence Dashboards*

2021–2022

- 15+ Power BI dashboards with DAX calculations
- SQL Server integration with incremental refresh

- Impact: 20% faster decisions, 95% satisfaction

## Education

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### University of the Witwatersrand

*BSc Actuarial Science & Mathematical Statistics*

2016–2019

## Certifications

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- IBM Data Science Professional Certificate (2023)
- Google Professional Project Management (2023)

## Technical Notes

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**Flask:** My production experience is with FastAPI and Django, which share core concepts with Flask (routes, templates, middleware). Flask is simpler and more lightweight, making transition easy. Confident I can be productive in Flask within days.

**MS SQL:** Production experience with PostgreSQL/MySQL. SQL fundamentals (queries, indexing, transactions) transfer directly to MS SQL Server.