

Fred Ngari Mwaniki – Data Scientist | Django Developer | Quantitative Analyst

Location: Nairobi, Kenya

Phone: +254 114 184 507

Email: fngarimwaniki.rc@gmail.com

LinkedIn: [Fred Mwaniki](#)

GitHub: [ngari-qds](#)

Portfolio: [ngarifred.live](#)

Kaggle: [kaggle.com/ngari-qds](#)

Professional Summary

Dynamic Data Scientist, Django Full-Stack Developer, and aspiring Quantitative Analyst with a proven record of building **high-performance web applications and predictive models**. Skilled in end-to-end solutions from data collection and processing to deployment. Passionate about **open-source contributions, Kaggle competitions, and measurable business impact**.

Key Highlights: - Delivered **85%+ model accuracy** on predictive analytics and time-series forecasting. - Built and deployed Django applications with **REST APIs, PostgreSQL, Docker, and payment integrations**, achieving **200+ unique users**. - **Open-source contributor** with 50+ stars, 15+ forks, and 1,000+ combined project downloads. - ALX Data Science trainee with hands-on **ML, NLP, visualization, and data engineering** experience. - Top 5% performer on **HackerRank Python** challenges.

Technical Competencies

- **Programming & Scripting:** Python, JavaScript, SQL, HTML, CSS, Shell
 - **Frameworks & Libraries:** Django, Flask, Pandas, NumPy, Matplotlib, Seaborn, Scikit-learn, TensorFlow (Beginner)
 - **Databases:** PostgreSQL, MySQL, SQLite
 - **Data Science & Analytics:** Machine Learning, Time-Series Forecasting, Hypothesis Testing, Statistical Modeling, Feature Engineering
 - **DevOps & Tools:** Docker, Git/GitHub, Linux, VS Code, Jupyter Notebook, RESTful API Development
 - **Other Skills:** Agile Workflows, Data Storytelling, Cloud Deployment (Heroku/AWS basics)
-

Professional Experience

Django Full-Stack Developer (Freelance) — 2023–Present

- Developed portfolio sites, dashboards, and an **e-commerce platform** with **secure auth** and **live payment gateway** (Stripe/PayPal). - Improved database performance by **30%** via optimized PostgreSQL queries. - Achieved **100+ daily visits** on live portfolio (ngarifred.live). - Contributed to open-source Django tools, resulting in **10+ forks** and **positive community feedback**.

Quantitative Research Consultant — WorldQuant Brain (2024–Present)

- Designed a suite of mathematical models, known as *alphas*, to capture subtle predictive relationships in financial markets. These alphas formed the foundation for systematic research, revealing new patterns in market dynamics and advancing rigorous, data-driven academic insights.

Hackathon & Freelance Projects — 2022–Present

- Won **2nd place** in a university hackathon for a predictive sales dashboard using Python and Plotly. - Delivered a freelance analytics dashboard achieving **90% client satisfaction** and **15% time savings** in KPI reporting.

Projects

- **Portfolio Website (ngarifred.live):** Showcases skills and projects; deployed via Docker on cloud.
- **E-commerce Platform (Django):** Shopping cart, payment gateway, and inventory management; achieved **200+ registered users**.
- **Kaggle ML Projects:** Competed in Titanic survival prediction (Top 20%), House Price Regression (RMSE < 0.15).
- **Open-Source Python Utilities:** Libraries and tools with **50+ stars** and **1,000+ downloads**.

Education

- **B.Sc., Actuarial Science** — University of Nairobi (2022–Present)
- **Certificate, Information Technology** — Elitech Computer College (2022)
- **High School Diploma (KCSE)** — Mean Grade A-, Embu High School (2022)

Certifications & Training

- **ALX Africa Data Science Program** — ML, NLP, Visualization, Data Engineering (2023–Present)
- **Python & Data Analytics** — Great Learning (2023)
- **Software Engineer Certificate** — HackerRank (2024)

- **Top 5% Python Certification** — HackerRank Challenges
 - **Docker & Git Fundamentals** — Applied Projects
-

Achievements & Extracurriculars

- **Hackathons:** 5+ participations, 1 award; recognized for rapid prototyping & analytical skills.
 - **Open-Source Impact:** 50+ GitHub stars, 15+ forks, 1,000+ downloads.
 - **Volunteer Teaching:** Conduct programming and data literacy workshops for 50+ students.
 - **Academic Excellence:** Consistently top percentile in mathematics, programming, and data-related courses.
-

References

Mr. Daniel Mugwithia

Lecturer in Information Technology, Elitech Computer College

Phone: +254 723 522 962

Email: [Available upon request]

Mr. Johnson Ireri Kinyua

Dean of Students & Career Services, University of Nairobi

Email: jkinyua@uonbi.ac.ke

Ms. Jane Wambui

Software Engineering Mentor, ALX Africa

Phone: +254 711 234 567

Email: jane.wambui@alx.africa
