

Humphrey Waiharo Maina

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Professional Summary

Data Analyst and Blockchain Developer with strong expertise in AI-driven analytics, statistical modeling, and backend-integrated distributed ledger systems.

Experienced in transforming complex datasets into actionable insights through SQL optimization, econometric analysis (SPSS, STATA), machine learning, and interactive dashboards. Skilled in leveraging AI tools such as Prompt BI, GPT-based systems, and GitHub Copilot to automate analytical workflows and enhance data-driven decision-making.

Additionally experienced in enterprise blockchain development using **Hyperledger Fabric** within the **Hyperledger** ecosystem, including smart contract (chaincode) development, permissioned network configuration, and secure data transaction design. Passionate about applying statistical rigor, AI automation, and blockchain infrastructure to improve governance, transparency, and business performance.

Core Competencies

Statistical & Quantitative Analysis

- Data Cleaning, Transformation & Validation
- Statistical Modeling (SPSS, STATA)
- Econometrics & Hypothesis Testing
- Machine Learning (Regression, Classification)
- Predictive Forecasting & Experimental Design

Data Engineering & Analytics

- Advanced SQL & Query Optimization
- Python (Pandas, NumPy, Matplotlib)
- Dashboard Development & Prompt BI Visualization
- Research Design & Technical Reporting

AI & Automation

- AI Literacy & Prompt Engineering
- GPT-based Workflow Automation
- AI-Assisted Data Governance & Reporting

Blockchain & Backend Systems

- Smart Contract (Chaincode) Development
- Containerisation (Docker)
- Permissioned Blockchain Network Architecture
- Identity & Access Control (MSP, Channel Management)
- Secure Transaction Design & Ledger Integration
- Backend Integration of Blockchain with Data Systems

Education

Bachelor of Science in Information Technology

Mount Kenya University — 2019 - Present

Kenya Certificate Of Secondary Education

E&T Concord Boys' High School— 2014 - 2017

Kenya Certificate Of Primary Education

SOS Hermann Gmeiner School — 2002 - 2013

Certifications

- Full-Stack & AI for Software Engineering — Power Learn Project Africa (PLP), 2025
- AI Literacy & Governance Certification — Otermans Institute, 2025
- SPSS & STATA Statistical Analysis — Kesap Research Centre, 2025
- SQL for Data Analysis — Sololearn, 2023
- PromptBi & DevFest Certificate

Professional Experience

Blockchain Developer - Intern

Momentum Labs | Nairobi, Kenya — 7th January 2026 – 28th February 2026

- Developed **BranchChain**, a fintech banking management system built on **Hyperledger Fabric** within the **Hyperledger** ecosystem.
- Designed and deployed a permissioned blockchain network to manage customer accounts, account lifecycle operations, and secure fund transfers.
- Implemented smart contracts (chaincode) to enforce banking business logic, transaction validation, and immutable audit trails.
- Configured blockchain components including peers, ordering services, channels, and Membership Service Providers (MSP).
- Integrated backend services and APIs with the distributed ledger for secure data synchronization and access control.
- Implemented identity management and role-based access control (RBAC) for secure financial record handling.
- Containerized the blockchain network using Docker for deployment and testing.
- Ensured data integrity, traceability, and regulatory-aligned auditability within a fintech environment.

Technologies: Hyperledger Fabric, Chaincode (Go/Node.js), Docker, Backend APIs, Git, AI-assisted development tools.

Data Analyst

Prompt BI | Nairobi, Kenya — October 2025 – Present

- Analyzed datasets exceeding 100K records to identify business trends and optimize client reporting processes.
- Leveraged AI tools (Prompt Bi) to automate anomaly detection and data validation, enhancing efficiency.
- Developed interactive Prompt BI dashboards integrating real-time KPIs for business performance tracking.
- Participated in various hackathons including Mount Kenya PromptBi in Partnership with Google Developer Group(GDG) & DevFest

AI Ethicist & Governance Certified Course

Otermans Institute | United Kingdom | August— 25 September 2025

- Completed a specialized course exploring the intersection of data science, ethics and AI governance
- Gained a strong understanding of responsible data practices, algorithmic fairness, bias mitigation, transparency and model accountability
- Developed skills in evaluating ethical risks and ensuring compliance with emerging AI regulations and governance frame works
- Applied these principles to data-driven projects, promoting trustworthy and human-centered AI solutions

AI for Software Engineering & Full-Stack Developer

Power Learn Project Africa (PLP) | Nairobi, Kenya — July 2025 – November 2025

- Completed a comprehensive course in full stack web development with a specialization in AI for Software Engineering
- Gained hands-on experience designing and deploying scalable and data-driven applications that integrate AI models to enhance functionality and user experience
- Participated in hackathons and masterclasses focused on inovation, collaboration and real-world problem-solving

- Successfully graduated with a strong foundation in modern technologies, machine learning integration and data-informed software development practices

Site Manager

Pamuco Builders | Kenya — May 2023 – May 2025

- Worked with Pamuco Builders X Kenya National Highway Authority (KeNHA) in maintaining and constructing various projects around the country.

Full-Stack Developer / Landscaper

Hedges Care Limited | Nairobi, Kenya — Jun 2019 – May 2023

- Designed their AI powered and NFT based Plant Detector to aide and assist Landscapers and environment enthusiast design their natural habitats both for commercial and residential properties.

- Now environmentalists can pick plants suited for their area keeping in mind carbon emission and absorption .

Key Projects

- **BranchChain** – Fintech Banking Management System — Developed a permissioned fintech banking platform using **Hyperledger Fabric** within the **Hyperledger** ecosystem to manage customer accounts and fund transfers with immutable transaction logging, smart contract–enforced business logic, and secure backend-ledger integration for full auditability and data integrity.

- **Hedges Care** – AI-Powered and NFT Based Plant Detector— Built a Plant & NFT-based Plant Detector integrating AI-driven computer vision and analytics to help landscapers and environmentalist choose appropriate plants for both residential and commercial properties aligned together with UNSDG 15 (Life on Land) and Power Learn Project Africa (PLP).

- Socioeconomic Data Analysis (STATA + SPSS) — Conducted regression and clustering analyses on household data to identify key determinants of income inequality.

Technical Skills

- **BlockChain:** Hyperledger Ecosystem (Fabric)
- **Programming & Databases:** SQL, Python, Javascript (node)

- **Containers:** Docker
- **Statistical Tools:** SPSS & STATA
- **Visualization:** Prompt BI, Matplotlib, Seaborn, Excel
- **AI Tools:** ChatGPT, Copilot, Perplexity AI, Ollama
- **Version Control:** Git, GitHub

Languages

- English — Fluent
- Swahili — Native

References

James Wekesa- Project Manager

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Stanley Wandung'u- Project Manager

Hedges Care Limited

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