



Ben Maina

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Websites, Portfolios, Profiles

- [linkedin.com/in/ben-maina](https://www.linkedin.com/in/ben-maina)
- <https://github.com/benweru>
- <https://benweru.github.io/portfolio/>

Skills

- **Languages & Frameworks:** Python, JavaScript/TypeScript, SQL, Ruby on Rails, ReactJS, Next.js, Dart/Flutter.

Analytical Computer Science graduate who builds reliable software and the data systems behind it. Proficient in Python, SQL, React and Ruby on Rails, with hands-on experience building data pipelines, REST APIs and LLM-powered automation workflows. Experienced in the fintech and B2B sectors, resolving backend data issues, automating manual operations and prototyping AI solutions for enterprise clients. Eager to leverage my engineering and data skills to build scalable, data-driven products in a fast-moving team.

Experience

2026-03 -
2026-09

Full Stack & AI Engineer

Kwara, Nairobi, Kenya

Architected and configured automated B2B workflows to eliminate manual operational bottlenecks for enterprise clients.

- **Workflow Automation:** Architected and deployed automated workflows integrating complex B2B datasets for enterprise SACCO clients, eliminating manual bottlenecks and ensuring high system availability.
- **API Integration:** Configured secure API endpoints to facilitate seamless data transfer between disconnected systems.

2025-02 -
2025-03

Technical Support & Operations

Chumz by Moneto, Nairobi, Kenya

- **Real-Time Data & Analytics:** Engineered Python and SQL reporting pipelines to extract and aggregate complex transactional data, reducing reporting times by 30% and providing management with real-time operational insights.
- **Root Cause Analysis & DWH Support:** Investigated complex data mapping errors and silent data drifts, communicating findings clearly to senior operations staff and implementing preventative data validation rules.
- **Technical Support & Troubleshooting:** Provided dedicated IT and system support, executing routine maintenance and

- **Data & Automation:**
Data pipelines, automated reporting, LLM data extraction, n8n.
- **APIs & Integration:**
RESTful APIs, webhooks, JSON payload handling.
- **Databases:** PostgreSQL, MySQL.
- **DevOps & Tools:**
Git/GitHub, Docker, CI/CD, automated testing, JIRA, Agile.

Languages

English
Bilingual or Proficient (C2)

Swahili
Advanced (C1)

2024-02 -
2024-03

Team Leader / Exchange Participant

AIIESEC Egypt, Alexandria, Egypt

- **Global Collaboration:** Facilitated cross-border exchange programs, coordinating with international partners to ensure seamless logistical operations.
- **Connectivity:** Built strong relationships with global stakeholders, demonstrating the confidence to "Speak Up" and present ideas in a collaborative, fast-paced environment.
- **Confidentiality:** Handled sensitive member data and exchange participant information with total discretion and organizational integrity.

Education

2026

Informatics And Computer Science

Strathmore University - Nairobi

- Database Management Systems
- Machine Learning
- AI Automation
- Data Science & Analytics
- Software & Web Application Development
- Networks & Network Security
- Mobile App Development
- Server Administration

2024

Certification: Networking

Cisco Networking Academy

Cisco Certified Network Associate (CCNA) -
Introduction to Networking

2022

Certification: Data Science

Strathmore University - Nairobi

- Data scraping & analytics using python
- Data presentation using python

High School

Light Academy - Nairobi

- Grade: B+

Projects

X Money for Kenya | Fintech Wallet Prototype

- **Double-Entry Ledger:** Built a PostgreSQL ledger in integer cents where database triggers reject unbalanced or edited entries, and idempotency keys make retries safe.
- **Mobile Money Top-Ups:** Integrated M-PESA, Kenya's leading mobile money platform, so users can fund their wallets from their phones, with a database-enforced state machine that recovers from late, duplicate or missing payment callbacks.
- **P2P Transfers & Security:** Shipped pay-by-handle transfers that block overdrafts and stay consistent when many payments run at once, plus PIN and OTP auth with Argon2, lockout and rate limits.
- **Testing & Delivery:** Built with FastAPI, Next.js and Docker, covered by automated API and end-to-end tests in CI.

Agentic AI Workflow Engine (Capstone Project)

- **Agentic Development:** Architected a Python-based intelligent workflow engine utilizing Large Language Models (LLMs) to ingest unstructured data and format it into strictly validated JSON schemas.
- **System Integration:** API integrations and automated data validation,
- **Unstructured Data Processing:** Integrated multiple external data sources and LLMs into a unified, secure backend infrastructure, ensuring high-speed data parsing and reliable system uptime under complex user request loads.

Strathmover | Cross-Platform Mobile Application

| <https://github.com/benweru/Strathmover>

- **Architecture:** Architected a comprehensive, cross-platform logistics application utilizing microservices and secure RESTful APIs to manage real-time tracking and booking, similar to taxi-hailing applications