Byron Tashinga Matsikembare

Python Full-Stack Developer · Harare, Zimbabwe

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I'm an IT systems developer at Die Deutsche Schule Harare, where I built and run DDSops360, the school's operations platform. I work in Flask, Django, FastAPI and React, and I'm studying Computer Science at HIT. Open to graduate developer roles from 2027, internships, freelance projects and business partnerships.

EXPERIENCE

IT Systems Developer · Die Deutsche Schule Harare — Sept 2026 – present

- Built and run DDSops360, the school's operations platform, live in production across its Harare and Bulawayo campuses.
- Designed a 14-module Flask and SQLAlchemy backend with a React, Vite and TanStack Query front end, covering enrolment, classes, library lending, staff, reporting and campus access.
- Implemented QR badge verification for event and gate scanning, with role-based accounts so security staff get scan-only access.
- Automated student ID and library card generation as print-ready PDFs, replacing a manual process.
- Set up continuous integration with GitHub Actions, containerised the stack with Docker and scheduled nightly off-site backups.

Developer · Muzukuru Streaming — June 2026 – Aug 2026

- Engineered responsive image galleries, administrative moderation queues and interactive data tables across client and management portals.
- Implemented client-side WebP compression and resolved live-stream comment buffering bottlenecks, cutting storage use and speeding up page loads.
- Designed full-stack issue-tracking modules with priority tagging, automated status alerts, pagination and multi-state filtering.

Information Technology Intern · Powervision (Pvt) Ltd — July 2025 – June 2026

- Built myPowervision, a Python Flask prototype for managing daily jobs and schedules through a clean, simple interface.
- Engineered and maintained internal web applications, building responsive user interfaces and secure RESTful backend services.
- Developed automated scripts and data workflows to streamline daily operations and remove manual reporting bottlenecks.

PROJECTS

Flask-Setup · Flask · Docker · Open source — Jun – Sept 2026

An open-source Flask app-factory starter: blueprints, config, migrations, health checks, logging, tests and Docker, wired up and ready.
github.com/Matsikembareb/flask-setup

CogniAdapt · FastAPI · Microsoft competition

An education platform that maps how a subject's fundamental and new concepts depend on each other, and structures learning around those links so students fill gaps from the roots.

PricePick · Business plan · Group project — Sept 2024 – May 2025

A group Flask project that scrapes deals from online shops into one place. I wrote its business model and plan, the documentation and the demo site.

EDUCATION

BTech (Honours) Computer Science — Aug 2023 – 2027 (expected)
Harare Institute of Technology

ZIMSEC Advanced Level — Jan 2021 – Dec 2022
St Faith's High School

21 points: Computer Science A, Mechanical Mathematics A, Physics B, Chemistry B, Pure Mathematics C

ZIMSEC Ordinary Level — Jan 2017 – Dec 2020
Kriste Mambo High School

15 subjects: 8 As and 7 Bs, including Mathematics, English, Computer Science, Physics and Shona

SKILLS

Back end
Python, Flask, SQLAlchemy, Django, FastAPI, Jinja templating, REST APIs, RBAC

Front end
HTML, CSS, JavaScript, React, Bootstrap, Tailwind CSS

Databases
MySQL, PostgreSQL, SQLite, MongoDB, Alembic migrations, Schema design

Tooling and ops
Git and GitHub, Docker, GitHub Actions, pytest, Postman, VS Code, Anaconda

Also used
Node.js, Java, C#, Kotlin, XML

Languages
Shona: native. English: advanced professional.

CERTIFICATIONS

Data Science (GCI World)
University of Tokyo · Aug 2026

Web development fundamentals (9 courses)
Master.dev (formerly Frontend Masters) · Jan – Mar 2026

Introduction to GitHub
GitHub Skills

Sexual and Reproductive Health course
SAYWHAT · Feb 2024

NFC, Computer Operations Packages
HEXCO · Apr 2021 · Distinction

NFC, ICT Fundamentals
HEXCO · Apr 2021 · Credit

Basic Computer Appreciation Course
POTRAZ · Apr 2018

Driver's licence, Class 2

LEADERSHIP

Chairperson, CoDe Youth Advisory Committee
May 2026 – present

Secretary, SAYWHAT

Counsellor, Friendship Bench

Peer Educator, O3 Plus

Member, Enactus
April 2026 – present

REFERENCES

Eng. A. Ndlovu
Chairperson, Computer Science Department, Harare Institute of Technology

Mr O. Rubabae
Business Development Manager, Powervision

Mr Manzimani
Senior Developer, Muzukuru Streaming

Contact details on request.