

AWADHI SADI SHEMLIWA

Associate Data Scientist · Full-Stack Developer

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Profile

DataCamp-certified Associate Data Scientist and full-stack developer. I clean and model real-world data — statistics, supervised and unsupervised machine learning, and visualisation people can act on — and I build the products that sit on top of it: React and TypeScript on the front, Python with Django and FastAPI behind, and AI integrated into the product rather than bolted on. Shipped to real clients and to Tanzania's national tech communities.

Core skills

Data & ML Python · pandas · NumPy · scikit-learn · SQL · Jupyter · matplotlib / seaborn · Plotly

Backend Django · Django REST Framework · FastAPI · Node.js / Express · PostgreSQL · Supabase · REST API design

Frontend React · TypeScript · JavaScript · HTML5 / CSS3 · Tailwind CSS · Vite · Framer Motion / GSAP

Mobile & Tools React Native · Flutter · Git & GitHub · Netlify / Railway · Figma · Linux

Experience

Frontend Developer — Subcode Africa — Binary Labs Present

Building product interfaces inside Binary Labs, Subcode Africa's engineering arm — React front-ends against Python services, with a growing hand in the data work behind them.

Founder · Data & Full-Stack — PesaLens 2025 — present

Designed, built and shipped a financial-intelligence product end to end: the parsing and cleaning pipeline, the analysis layer, the API and the interface.

Data Scientist & Full-Stack Developer — Freelance · Dar es Salaam 2023 — present

Websites and web apps for Tanzanian companies and communities — SHEHITA, SHEDA GS, Python Tanzania, PyCon, PyData and Django Girls.

Data Analysis Support — Actuarial & Risk Consulting

Processed insurance datasets and produced analytical insights for risk evaluation.

Industrial Training — Softnet 2023 — 2024

IT infrastructure and systems support.

Selected projects

PesaLens — pesalens.com 2025

Built a financial-intelligence platform end to end — ingests raw CRDB, NMB, NBC, M-Pesa and Airtel statements, cleans and categorises every transaction, forecasts against live market data, and explains the result in plain language. Pipeline, analysis layer, API and interface.

SHEHITA (T) Ltd — shehita.co.tz 2024

Designed and deployed a corporate site for a scheme-administration and compliance firm — responsive, conversion-focused, built to the client brief.

SHEHITA System — system.shehita.co.tz 2024

Built the internal management system behind SHEHITA operations — authentication, records and day-to-day workflows.

SHEDA GS — shedags.co.tz 2024

Built a company site for a treated-utility-pole supplier working to TANESCO and REA standards, with traffic analytics.

Python Tanzania — python.tz 2025

Built the home of the national Python community — the organisation that brought DjangoCon Africa to the continent twice.

PyCon Tanzania — pycon.tz 2025

Built the conference site for the national Python gathering — schedule, speakers and ticketing.

PyData Tanzania — pydata.tz 2026

Built the site for the Tanzanian data-science community — tutorials, talks and sprints across data, ML and the Python ecosystem.

Django Girls TZ — djangogirls.tz 2025

Built the site for the free workshops that take women from zero to a deployed Django app.

Education

BSc Computer Science — University of Dar es Salaam 2022 — 2025

Cumulative GPA 3.4 (3.1 · 3.5 · 3.5 by year)

A-Level — PCM (Physics, Chemistry, Math) — Shamsiye Sec. & High School 2020 — 2022

Division I · 1.7 points

O-Level — Shamsiye Sec. & High School 2016 — 2019

Division I · 1.10 points

Certification

Associate Data Scientist — DataCamp November 10, 2025

Python, data manipulation and joining, exploratory analysis, statistics, and supervised and unsupervised machine learning. · Credential ID DSA0010536311655