Walter Shaquil Da Conceição
Computer and Telecommunications Engineer
+258 84 695 7899 | +258 83 373 5482
Linkedin • Github • Waltershaquil@gmail.com • Portfolio

Experience

Bolsa de Valores de Moçambique (BVM), Maputo • Software Developer Intern
September 2025 – Present

- **Software Development & Systems Optimization**: Actively involved in the development and implementation of new internal systems designed to improve operational efficiency and significantly reduce company costs.
- **Web Development & Maintenance**: Updated and optimized the official BVM website, addressing performance issues and resolving critical bugs to enhance user experience and system reliability.
- **Financial Systems Integration**: Maintained and updated key applications integrated with the Mozambican financial system, ensuring seamless interoperability, data consistency, and compliance with institutional standards.
- **Continuous Improvement**: Collaborated with cross-functional teams to identify automation opportunities, streamline workflows, and support digital transformation initiatives within the organization.

LG Transport, Maputo • *IT Intern March 2025 - July 2025*

- **Cloud Infrastructure & Data Management:** Spearheaded a digital transformation project by engineering a document digitalization workflow. Implemented automated daily backups to a secure cloud infrastructure, dramatically enhancing data retrieval speed, ensuring data integrity, and establishing a robust disaster recovery plan.
- **IoT & Telematics Cost Optimization:** Analyzed telematics data consumption patterns from the vehicle fleet's **GPS** trackers communicating over **LTE/4G** networks. This data-driven analysis was instrumental in successfully renegotiating mobile carrier plans, resulting in significant operational cost reductions.
- **Network & System Administration:** Performed comprehensive network administration for the office **LAN**, managing **TCP/IP** configurations, routers, and Wi-Fi access points with **WPA2/WPA3** security. Executed a proactive system maintenance plan for all workstations, including OS patching and antivirus management, to ensure high availability and bolster endpoint security.
- **Vendor Relations & Technical Support:** Oversaw the asset management and lifecycle of all SIM cards for the fleet's **GPS/LTE** tracking units. Acted as the primary technical liaison with the mobile operator to troubleshoot network connectivity issues, ensuring consistent data telemetry from all devices.

Projects

AI Supervisor Recommendation System • *Final Year Project 2025*
Developed a full-stack prototype of an AI-powered application to optimize the recommendation of academic supervisors for final year projects. The system's core is a **Dense Neural Network (DNN)** regression model that predicts a potential success score for student-supervisor pairings based on their profiles. I implemented a comprehensive data pre-processing pipeline, transforming textual data like project themes and supervisor specializations using **TF-IDF**. The project successfully validated the complete technical infrastructure, proving the solution's viability while highlighting that its predictive accuracy is critically dependent on real-world historical data.
Tech Stack: Python, Flask, TensorFlow, Keras, Scikit-learn, Pandas, React, Tailwind CSS, PostgreSQL, and Supabase.

Car Sales System
This robust, full-stack enterprise application for managing a car dealership was developed utilizing React for a dynamic and intuitive user experience on the frontend. The powerful backend was architected with Spring Boot, exposing RESTful APIs for seamless data exchange. PostgreSQL was the chosen relational database.
Tech stack: Rea**ct,** TailwindCSS**,** Spring Boot, PostgreSQL and RESTful APIs.

Auth System
 This secure and highly functional authentication system leverages Angular for a component-driven frontend, providing a rich user interface. The backend, built with Spring Boot, implements secure RESTful APIs to manage user authentication and authorization, utilizing JWT tokens for secure communication. User data is persistently stored in a PostgreSQL database.
Tech stack: Angular, Spring Boot, PostgreSQL, RESTful APIs, JWT.

Thrift Shop Platform
This comprehensive e-commerce platform, tailored for a specific clothing business, features both an admin dashboard for business management and a seamless buyer-facing side. The interactive frontend was built with React and styled with Tailwind CSS, providing a modern and highly customizable user experience. For the backend, Supabase was utilized, leveraging a PostgreSQL database for robust data management and efficient API interactions.
Tech stack: Rea**ct,** TailwindCSS**,** Spring Boot, PostgreSQL and RESTful APIs.

Savings Challenge
A Next.js Native application that visualizes savings and investment tracking data for the Savings Challenge. The dashboard provides interactive visualizations and analysis of different savings categories including base savings, individual tracking, and investment growth.
Tech stack: NextJS.

Education and Certificates

- **ISUTC – Instituto Superior de Transportes e Comunicações**, Mozambique
  Bachelor's degree in Computer and Telecommunications Engineering, 2025.
- **Google Cybersecurity Professional Certificate.**

Language

- Portuguese (Native)
- English (Fluent)