

# Collin Makwala

Backend Developer

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## Technical Skills

**Languages:** C#, Python, SQL, JavaScript

**Libraries & Frameworks:** ASP.NET Core, MVC, Entity Framework, Flask, SQL Alchemy, RabbitMQ

**Database Technologies:** SQL Server, PostgreSQL, MongoDB

**Data Engineering:** ETL Pipelines, Data Warehousing, Data Orchestration, Apache Airflow

**DevOps & Tools:** Docker, Git/GitHub, CI/CD, Unit Testing (TDD)

**Methodologies:** Agile/Scrum, Data Modeling, Schema Design

## Experience

### Junior .NET Backend Developer

Mar 2025–Present

Ogilvy South Africa

- Developed a production-ready eCommerce platform for Eskort using .NET, designed to modernize their digital sales channel and support scalable product management and future integrations, providing a significant upgrade over legacy ordering processes.
- Rebuilt the Topsy Organisation's website (10+ pages) using a .NET backend and a React frontend, replacing an outdated platform to deliver faster performance, improved accessibility, and a more maintainable codebase for long-term growth.
- Automated end-to-end deployments using Jenkins, reducing delivery cycles from several days to a fully automated CI/CD pipeline and improving deployment reliability.
- Built and deployed an internal MVP real-time chat application using SignalR and WebRTC, enabling live messaging and peer-to-peer media exchange; deployed via Azure Cloud and Kubernetes for scalable, containerized infrastructure.

### Junior Data Engineer (Learnership)

Mar 2024–Mar 2025

Ogilvy South Africa | Umuzi.org

- Designed and implemented automated workflows using Apache Airflow DAGs, integrating with GitHub APIs to streamline pull request management
- Developed RESTful APIs with Flask and C# ASP.NET Core to perform CRUD operations for inventory management systems
- Built data pipelines that improved information flow between marketing systems and analytics platforms
- Engineered NoSQL data solutions using MongoDB integration with Python applications for educational management systems
- Implemented robust database management strategies including schema design, data modeling, and migration paths using SQLAlchemy ORM and Alembic

### Junior Tech Lead

Mar 2024–Mar 2025

Umuzi.org

- Lead a team of junior developers, providing technical mentorship in both .NET and Python programming challenges
- Facilitate daily stand-up meetings and sprint planning sessions according to Agile methodologies
- Conduct code reviews for C#, Python, and SQL-based projects, ensuring adherence to best practices and coding standards
- Organize weekly reflection sessions that improve team efficiency by identifying

- bottlenecks in development processes
- Collaborate in monthly coaching sessions to refine leadership techniques and Scrum procedures

## Education

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### Umuzi.org

NQF 5: Systems Development

Mar. 2024 – Mar. 2025

Learned core software development skills including object-oriented programming, SQL and database design, web application development, systems analysis, Git version control, Agile practices, and practical problem-solving for building real-world application

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