

OATILE SELLO MDLELA

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SUMMARY

Dedicated Software Engineer with a strong foundation in software development and testing. Proven expertise in cloud technologies, particularly AWS and Microsoft Azure, and a solid grasp of object-oriented programming principles. Skilled in front-end and back-end development, with a passion for crafting efficient and reliable solutions. Seeking a Junior Developer role to leverage my technical skills and contribute to innovative projects.

PROFESSIONAL EXPERIENCE

IT Graduate

Multichoice [DStv Stream & Customer Relationship Management (Dynamic365)] | Hybrid

04/2024-

Present

Development Experience

- Developed multiple utilities in .NET Core to integrate seamlessly with Microsoft Dynamics 365 CRM, enhancing system functionality and improving user experience.
- Developed and maintained service components using WCF Services, Visual Studio, and Dynamics 365 (CRM) to ensure data integrity and reliability.
- Utilized Azure DevOps for defect tracking and User Story management, streamlining development processes.
- Implemented and optimized API procedures using Postman and WCF Test Client.
- Refactored and modernized a unit test regression suite for Dynamics 365 (CRM) Services, improving code quality.
- Developed and tested Microsoft Dynamics 365 (CRM) user stories to ensure functional correctness.
- Created automated C# unit tests using the NUnit framework for Dynamics 365 (CRM) Services
- Successfully completed the decoupling of Salesforce for DStv Stream with no reported bugs, ensuring smooth transitions.
- Validated and upgraded Dynamics 365 (CRM) versions, ensuring compatibility and performance.
- Developed automated integration tests using the Selenium framework with C#, ensuring comprehensive test coverage.

Testing Experience

- Created and managed test plans, test cases, and scripts for DStv Stream apps, ensuring robust software functionality.
- Applied various testing methodologies including functional, regression, and performance testing.

- Conducted comprehensive service testing using WCF Services, Visual Studio, and Dynamics 365 (CRM) to ensure data integrity and reliability. Utilized SAP and Salesforce for product and device information management.
- Performed system integration testing (SIT) to ensure seamless operation of system components.

Cloud Engineer Intern

06/2023- 12/2023

SolvynG.IO | Hybrid

- Developed robust backend applications using Amazon Cognito and IAM for enhanced security.
- Created intuitive and responsive front-end interfaces with Angular, HTML, CSS, and TypeScript.
- Built scalable non-relational databases using Amazon S3 and Amazon DB.
- Managed project tasks and user stories using ADO.
- Utilized GitHub and GitBash for efficient source code management.

EDUCATION

IIE Varsity College Bachelor of Computer and Information Science in Application Development	2020-2023
University of South Africa (UNISA) BSc Honours in Computing	2025-2026

TECHNICAL SKILLS

Programming Languages: C#, Java, Python, HTML, CSS, JavaScript, Kotlin, TypeScript, SQL

Frameworks & Libraries: .NET, Angular, React, Node.js, Express.js, ASP.NET, ASP.NET Core, NUnit, xUnit

Database Management: MongoDB, Microsoft SQL Server, MySQL, Oracle Database, PostgreSQL

Operating Systems: Windows, Linux

Cloud Services: Amazon Web Services, Microsoft Azure, Huawei Cloud

Developer Tools: VS Code, Visual Studio, Android Studio, Git, Git Bash, GitHub

Containerization & Orchestration: Docker, Kubernetes

CI/CD: Jenkins, GitLab CI/CD, Azure DevOps

Testing Tools: Selenium, Postman, NUnit, xUnit, WCF Test Client

Testing Types: Unit Testing, Integration Testing, Functional Testing, Regression Testing

Security: JWT Authentication, OAuth, HTTPS, Role-Based Access Control (RBAC), Password Hashing

Web Services: REST API, RESTful API, WCF (Windows Communication Foundation)

SOFT SKILLS

- Detail-orientated and quality orientation
- Creative Thinking and Problem Solving
- Active Listening and Communication
- Learning agility
- Excellent debugging skills
- Excellent written and oral communication skills
- Time Management
- Resiliency
- Excellent teamwork and collaboration skills
- Attention to detail

CERTIFICATION

AWS Certified Cloud Practitioner | Amazon Web Services Training and Certification

Microsoft Azure Fundamentals | Microsoft

ISTQB® Foundation Level Certification | International Software Testing Qualifications Board

Introduction to Cloud Computing | Simplilearn

Introduction to AWS Identity and Access Management(IAM) | Simplilearn and AWSs

Amazon DynamoDB Service Introduction | Simplilearn and AWS

Introduction to Linux | LinkedIn Learning

BADGE ACHIEVEMENTS

Interact with an ASP.NET Core minimal API | Microsoft

Personal Projects

Monolithic

Eisenhower-Matrix-Task-Manager | Backend: Python, Flask, MongoDB, PyMongo | Frontend: HTML, CSS, JavaScript

- Eisenhower Matrix Task Management is a task management and time tracking application. This API allows users to create tasks, organize them into folders, and track time spent on each task using a timer system.

Document-QA-System | Backend: Python, Flask | Frontend: HTML, CSS, JavaScript | AI/ML: Amazon Bedrock, LangChain | Data Processing: PyPDF2, FAISS

- This Document Q&A Application is an AI-powered tool that allows users to upload PDF documents and ask questions about their content. It leverages natural language processing and machine learning techniques to provide relevant answers based on the uploaded document.

Sentiment Analysis Chatbot | Backend: Python, Flask | Frontend: HTML, CSS, JavaScript | NLP: VADER Sentiment Analyzer, Amazon Comprehend | AWS Services: Amazon Comprehendss

- This project implements a sentiment-aware chatbot using Python, Flask, and VADER (Valence Aware Dictionary and Sentiment Reasoner). The chatbot analyzes the sentiment of user input in real-time and responds accordingly, providing a more empathetic and context-aware conversation experience.

ProdCollab | Backend: C#, ASP.NET Core | Frontend: HTML, CSS, JavaScript | AWS Services: Amazon S3

- ProdCollab is a web application designed to facilitate collaboration among producers and project teams. Built on ASP.NET Core Key features include: File upload and download functionality User-friendly interface for easy navigation and interaction Integration with Amazon S3 for reliable file storage and retrieval

ExpenseSense | Mobile Development: Kotlin

- Kotlin Mobile application designed to assist SASSA grant recipients in South Africa in managing their finances with confidence and ease.

WebScraperAPI | Backend: C#, ASP.NET Core

- ASP.NET Core Web API that scraps HTML Content from a Website

Microservices

AuthService | Backend: .NET Core, C#, Entity Framework Core | Database: AWS RDS with PostgreSQL

- Developed a secure and scalable authentication microservice for user management and role-based access control.
- Implemented JWT-based authentication and OAuth integration for seamless user login and session management.
- Utilized AWS RDS with PostgreSQL for reliable and secure data storage.
- Integrated role-based access control (RBAC) to manage user permissions and protect sensitive endpoints.
- Deployed the microservice on AWS, ensuring high availability and scalability.

ADDITIONAL LINKS

LinkedIn - <https://www.linkedin.com/in/oatile-mdlela-b18278272>

Portfolio Website - <https://oatilem.github.io/Portfolio-Website>

GitHub - <https://github.com/OatileM>

REFERENCES

Available upon request.