


Mueletshedzi Moses Mubvafhi

AWS ML Engineer | 4x AWS Certified (DevOps Professional) | Cloud Support Associate

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 LinkedIn

 Portfolio

 City of Cape Town, Western Cape, South Africa

Professional Summary

AWS-certified Machine Learning Engineer and DevOps Professional with hands-on experience in cloud infrastructure, AI/ML services, CI/CD pipelines, and distributed systems. Currently gaining industry experience at Amazon Web Services, working across multiple technical domains including AI/ML, networking, security, big data, DevOps automation, and cloud governance. Proven track record of developing ML models with 89%+ accuracy and delivering technical education to 50+ students. Strong foundation in software engineering with expertise in infrastructure as code, continuous integration/deployment, and agile development practices.

Key Skills

AI/ML & Data Science: Machine Learning, Deep Learning, NLP, AWS SageMaker, AWS Bedrock, Model Development, Data Processing

Programming Languages: Python, Java, Bash Scripting, SQL, YAML

Development Tools: Git, Jenkins basics, NLTK, SpaCy, Pandas, Scikit-learn, TensorFlow, AWS Management Console, AWS CLI

Languages: English (Professional), Venda (Native)

DevOps & Automation: CI/CD Pipelines, Infrastructure as Code (CloudFormation, Terraform basics), AWS CodePipeline, CodeBuild, CodeDeploy, Docker, Monitoring & Logging, Blue/Green Deployments

Cloud Technologies: AWS (EC2, S3, VPC, IAM, CloudWatch, Lambda, CloudFormation, Systems Manager), Linux/Unix Systems, Cloud Architecture

Distributed Systems: High Availability Design, Load Balancing, Fault Tolerance, Scalable Architecture, Auto-scaling

Certifications

- **AWS Certified DevOps Engineer – Professional**
- AWS Certified Solutions Architect – Associate
- AWS Certified Machine Learning Engineer – Associate
- AWS Certified AI Practitioner
- Data Science, Machine Learning and Deep Learning for Real-World Applications
- Foundation of Generative AI

Professional Experience

Amazon Web Services (AWS)

Cloud Support Associate Intern

February 2025 - 22 August 2025

City of Cape Town, Western Cape, South Africa

- **AI/ML:** Troubleshoot and optimize AWS AI/ML services including SageMaker, Bedrock, and machine learning pipelines for customer implementations
- **DevOps Practices:** Implement CI/CD pipelines, infrastructure automation, and monitoring solutions using AWS DevOps services for improved deployment efficiency and system reliability
- **Networking:** Configure and debug AWS networking components including VPC, subnets, security groups, load balancers, and connectivity solutions
- **Governance & Compliance:** Implement AWS governance frameworks, compliance monitoring, and best practices for enterprise-level cloud deployments
- **Security:** Apply AWS security best practices, IAM policies, encryption protocols, and threat detection across multiple service domains
- **Big Data:** Support AWS big data solutions including data lakes, analytics pipelines, and processing frameworks for large-scale data operations
- **Cloud Foundations:** Master core AWS services (EC2, S3, CloudWatch, Lambda) through hands-on labs and real-world customer scenarios
- **HAWA (High Availability & Workload Architectures):** Design and troubleshoot resilient, scalable cloud architectures with disaster recovery and fault tolerance
- Participate in instructor-led training, shadowing sessions, and peer review to reinforce AWS certification knowledge with practical problem-solving

Excel@Uni

Informatics Tutor & Workshop Facilitator

April 2024 - Present

- Deliver comprehensive workshops on Java programming, control structures, and tech career development to 50+ students
- Facilitate live sessions as part of the national "Basics to Computer Programming" initiative
- Collaborate with multidisciplinary teaching team to design curriculum, prepare exercises, and provide student support
- Develop and submit detailed workshop notes to enhance student learning outcomes
- Maintain high engagement levels through structured presentations and interactive Q&A sessions

CodeClause

Data Scientist

April 2024 - May 2024

- Developed end-to-end sentiment analysis model for movie reviews using advanced NLP techniques
- Collected, cleaned, and preprocessed large text datasets using NLTK and SpaCy libraries
- Engineered features through TF-IDF vectorization to transform unstructured text into numerical format
- Trained and optimized logistic regression model achieving 89.34% accuracy with comprehensive evaluation metrics
- Delivered detailed performance analysis through classification reports and statistical validation

Key Projects

Infrastructure Automation & CI/CD Implementation

AWS DevOps Services, Python, CloudFormation

- Designed and implemented automated deployment pipelines using AWS CodePipeline and CodeBuild
 - Created Infrastructure as Code templates for repeatable, version-controlled deployments
 - Implemented comprehensive monitoring and alerting using CloudWatch and X-Ray
 - Applied DevOps best practices for continuous integration and continuous delivery
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Movie Review Sentiment Analysis System

Python, NLTK, SpaCy, Sci

Python, NLTK, SpaCy, Scikit-learn

- Built sentiment analysis model achieving 89.34% accuracy using logistic regression and TF-IDF vectorization
- Implemented complete ML pipeline from data preprocessing to model evaluation
- Processed and analyzed large text datasets with comprehensive statistical validation
- Delivered detailed performance analysis through classification reports and metrics

AWS Learning Projects

AWS Services, Cloud Architecture

- Hands-on experience with AWS services through internship labs and customer scenarios
- Worked with multi-service cloud solutions across 7 technical domains
- Gained practical experience in troubleshooting and optimizing cloud architectures
- Applied high availability design principles and disaster recovery concepts

Education

University of Johannesburg

Bachelor of Science in Information Technology - Computer Science and Informatics

Expected Graduation: March 2026

Relevant Coursework: Algorithms & Data Structures, Software Engineering, Database Systems, Computer Networks, Programming Fundamentals

Additional Information

- **Current Focus:** Machine learning engineering, DevOps practices, cloud automation, and distributed systems design
- **Recent Achievement:** Earned AWS Certified DevOps Engineer - Professional certification (2025)
- **AWS Experience:** Hands-on experience with AWS AI/ML services including SageMaker and Bedrock through internship
- **Technical Communication:** Proven ability to explain complex technical concepts through teaching and mentoring experience
- **Continuous Learning:** Staying current with ML/AI and DevOps best practices
- **Collaboration:** Experience working with diverse teams in agile environments and cross-functional projects

References available upon request