SIPHEPHELO MLUNGWANA

DevOps Engineer

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About Me

Self-driven DevOps Engineer with extensive experience in cloud computing, containerization, infrastructure automation, and Kubernetes orchestration. Proven track record in designing scalable cloud solutions, implementing CI/CD pipelines, and managing complex infrastructure environments. Strong expertise in AWS services, monitoring solutions, and DevOps best practices with a commitment to operational excellence.

Education

(2019 - 2021)
Durban University of Technology
Bachelor of Information Communication and Technology

Skills

- Kubernetes
- AWS
- Terraform
- CI/CD
- Python
- Docker
- Linux
- Git

Certifications

Important Links

- LinkedIn
- Website
- GitHub
- Instagram
- Credly

Work Experience

CLOUD AND INFRASTRUCTURE ENGINEER
Freeway Fleet Systems | May 2024 – Present

- Manage and optimize Amazon AppStream deployments for virtualized applications

- Design and maintain CI/CD pipelines using AWS CodePipeline, CodeCommit, and CodeBuild

- Develop and manage serverless functions with AWS Lambda

- Administer RDS instances, ensuring backups, availability, and performance optimization

- Manage EC2 instances and S3 storage for scalability and cost efficiency

- Implement comprehensive monitoring solutions using AWS CloudWatch

- Troubleshoot complex infrastructure issues and improve system reliability

- Apply security best practices across AWS services, including IAM and encryption

- Automate infrastructure provisioning with AWS CloudFormation and Terraform

- Optimize costs and performance across AWS resources

DEVOPS ENGINEER
SplitPoint Solutions | Jun 2023 - May 2024

- Enhanced Telegraf for performance data collection from servers, containers, and databases

- Configured InfluxDB for optimized time series data storage and retrieval

- Created comprehensive Grafana dashboards for visualizing network, application, server, and business metrics

- Utilized Prometheus for advanced data collection, querying, and alert configuration

- Automated server management tasks using SaltStack configuration management

- Managed infrastructure provisioning and updates using Terraform

DEVOPS ENGINEER AND SOFTWARE TESTING
Advateck Branding Media | Oct 2022 - May 2023

- Conducted comprehensive end-to-end UI testing and API testing using Postman

- Set up and maintained web development servers with HTTPS implementation

- Managed SSL certificates and security configurations

- Developed WordPress solutions and provided technical support

- Collaborated on UX/UI design and multimedia content creation

CLOUD SUPPORT ASSOCIATE
Sfikile Consulting (Pty) Ltd | Jan 2022 - Sep 2022

- Maintained and optimized cloud computing systems for multiple clients

- Provided technical support requiring programming knowledge and hardware understanding

- Performed system troubleshooting to identify and resolve performance issues

- Implemented corrective measures for system optimization

- Managed server software upgrades to ensure optimal performance and security

CLOUD SUPPORT – INTERN
Sfikile Consulting (Pty) Ltd | Jul 2021 - Dec 2021

- Updated servers and installed software via SSH and RDP connections

- Built and executed comprehensive unit tests and test plans

- Monitored system performance and maintained infrastructure according to requirements

- Developed installation and monitoring tools for operational support

- Collaborated with development teams to create automated CI/CD pipelines

- Provided backup and recovery support for cloud resources

IT INFRASTRUCTURE – INTERN
Dark Matter Consultants (Pty) Ltd | Jun 2020 - Dec 2020

- Managed SSL certificates for NGINX and Apache web servers

- Configured security groups and Network ACLs for traffic management

- Assembled and configured physical servers for optimal performance

- Installed and maintained VMware Hypervisor for virtualization

- Created and managed EC2 instances, VPCs, and RDS in AWS environments

- Implemented S3 bucket solutions for secure and scalable storage

- Deployed virtual machines using VirtualBox for flexible IT environments

SOFTWARE DEVELOPMENT TUTOR
Durban University of Technology | Mar 2019 - Dec 2019

- Provided Python programming instruction and mentorship to fellow students

- Developed teaching materials and practical exercises for programming fundamentals

- Assisted students in understanding core programming concepts and techniques

FOUNDER, DIRECTOR & CEO
39 Degrees Film Studio | May 2014 - Nov 2018

- Managed IT infrastructure including networking equipment, servers, and workstations

- Implemented AWS cloud services (EC2, S3) for website hosting and operations

- Designed and implemented studio networking solutions

- Provided technical troubleshooting and end-user support

- Developed foundational skills in system administration and cloud services

REFERENCES
AVAILABLE ON REQUEST