MALCOLM SESAY
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SUMMARY:

Results-driven AWS Cloud Engineer with expertise in designing and optimizing secure, scalable cloud infrastructure. Skilled in leveraging AWS services to build cost-efficient systems, automating processes, and improving operational efficiency. Adept in Infrastructure as Code (IaC), containerization, and CI/CD pipelines, driving business growth and enhancing system performance. Passionate about aligning cloud solutions with business objectives to deliver measurable outcomes in performance, resilience, and cost efficiency.

TECHNICAL SKILLS:

Cloud Platform: Amazon Web Services (AWS)
Core AWS Services: EC2, EKS, ECR, S3, RDS, IAM, VPC, CloudFormation, CloudWatch, Lambda, Route 53
Networking: VPC, Subnets, NAT Gateway, Security Groups, Load Balancers, Route Tables
Infrastructure as Code: Terraform, Ansible, AWS CloudFormation
Containerization & Orchestration: Docker, Kubernetes, Amazon EKS, Helm
Scripting & Automation: Python (AWS SDK), Bash, PowerShell
CI/CD & GitOps: Jenkins, GitHub Actions, ArgoCD

CERTIFICATIONS:

- AWS Certified Solutions Architect

TECHNICAL PROJECTS:

AWS Data Backup Pipeline
- Designed and implemented an automated backup system using EC2, EBS, Lambda, SNS, CloudWatch, and EventBridge, enabling real-time monitoring and automated alerts.

Serverless DevOps Pipeline
- Designed a serverless pipeline leveraging AWS Lambda, DynamoDB, S3, and API Gateway to streamline DevOps operations with real-time data processing.

Secure File Vault
- Developed a front-end UI for encrypting and storing sensitive files securely using S3 (SSE), KMS, AWS Cognito for authentication, and CloudTrail for logging.

EXPERIENCE:

07/22 to Present — **BULLIFY,** Bowie, MD
Cloud Infrastructure Engineer/AWS Cloud Engineer
- Spearheaded the migration of legacy systems to AWS, architecting scalable solutions that optimized resource utilization and supported future growth.
- Implemented Infrastructure-as-Code (IaC) using Terraform, automating AWS resource deployment and reducing setup times.
- Developed Python automation scripts to manage EC2 instance lifecycles and backups, cutting manual operations by 50% and boosting team productivity.
- Configured high-availability web servers on EC2 using Ansible and NGINX, ensuring seamless application uptime.

Key Achievements:
- Reduced infrastructure deployment time by 30%, accelerating project timelines.
- Improved system scalability and uptime, reducing manual interventions by 40%, enhancing operational reliability.

12/19 to Present — **ONEPASS APPAREL,** Bowie, MD |
AWS Solutions Architect & Founder

- Designed and deployed a secure, scalable WordPress-based e-commerce platform using EC2, S3, and RDS, ensuring optimal site performance and security.
- Optimized cloud resource usage, reducing infrastructure costs by 25% through strategic instance resizing and resource allocation.
- Integrated Amazon S3 for efficient image storage and retrieval, improving website load times and user experience.
- Implemented automated backup and monitoring systems, increasing system reliability and minimizing downtime.

EDUCATION:

Bowie State University
Bachelor of Science in Computer Technology – Expected 05/2025

Prince George's Community College
Associate of Applied Science in Information Technology – 05/2022