MESFIN GETACHEW

DEVOPS ENGINEER

CONTACT

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Washington, D.C. – Baltimore Metro Area

SKILLS

- **Cloud Platforms:** AWS (EC2, S3, Lambda, IAM, RDS, VPC, CloudFormation)
- **Version Control:** Git, GitHub, GitLab, Bitbucket
- **DevOps Tools:** Jenkins, GitLab CI/CD, Docker, Kubernetes, Terraform, Azure DevOps
- **Containerization & Orchestration:** Docker, Kubernetes, AWS ECS, EKS
- **Automation & Provisioning Tools:** Terraform, Ansible, Kubernetes, AWS CloudFormation
- **Security & Compliance:** AWS IAM, AWS KMS, Encryption, RBAC
- **Database:** MySQL, T-SQL, DynamoDB
- **Monitoring & Logging:** AWS CloudWatch, CloudTrail, Prometheus, Grafana, Datadog
- **Programming & Scripting:** SQL, Python, JavaScript, PowerShell, Bash
- **Front-End & Web Development:** Html, React
- **Operating Systems:** Linux, Windows Server, Mac OS
- **APIs:** RESTFUL & SOAP APIs
- **Collaboration & Agile Tools:** Jira, Confluence, Slack, Microsoft Teams, Scrum

EXPERTISE

- Enterprise Software Development
- System Design
- Infrastructure Automation
- Configuration Automation
- Agile Development
- RDBMS Design & Build
- Team lead

PROFILE SUMMARY

Experienced DevOps Engineer with 6+ years of expertise in cloud infrastructure automation, CI/CD pipelines, database management, and software development methodologies. Proficient in AWS, Azure, Docker, Kubernetes, and Infrastructure as Code (IaC) tools like Terraform and CloudFormation. Skilled in streamlining operations, improving system scalability, and driving continuous improvement. Strong team player with a proven ability to collaborate with cross-functional teams to deliver innovative, high-performance solutions.

WORK EXPERIENCE

Senior DevOps Cloud Engineer

Shiro Technologies LLC, Remote — Oct 2022 – Present

- Architected & Optimized cloud solutions, migrating legacy on-premises applications to scalable AWS environments, reducing infrastructure costs by 30% and improving system performance.
- Implemented Infrastructure as Code (IaC) using tools such as Terraform, Ansible, Bash, Python & CloudFormation, streamlining the automation of deployments, configuration management & updates.
- Built CI/CD pipelines with automated testing and release processes, reducing time-to-market for critical releases by 25% and ensuring higher deployment frequency.
- Spearheaded observability strategies, integrating NewRelic, Datadog & CloudWatch for enhanced monitoring, logging, & alerting, significantly reducing mean time to detection (MTTD) & resolution.
- Orchestrated containerized applications with Docker, Kubernetes, & advanced cluster management techniques, ensuring seamless scalability, high availability, & fault tolerance across diverse workloads.
- Designed auto-scaling architectures leveraging AWS Lambda, SQS, SNS, NLB, & ELB, increasing resource utilization by 35% and improving application resilience under fluctuating load conditions.
- Led the development of reusable AWS Glue data pipelines, aligning with the organization's data lake strategy, seamlessly integrating with S3, Step Functions, SQS, SMS, RDS, Lambda, & Kinesis, streamlining data workflows and improving operational efficiency.
- Leveraged and implemented analytics solutions using Athena, QuickSight, and SageMaker to deliver real-time insights and predictive models, driving enhanced cybersecurity and fraud detection initiatives.

Cloud DataOps Engineer

CDI, Arlington, Virginia — Jun 2020 – Sep 2022

- Applied DataOps methodologies to implement CI/CD pipelines for relational and NoSQL databases (MySQL, MongoDB), ensuring continuous delivery of schema changes, automated testing, and rapid feedback loops across the entire data lifecycle.
- Established Infrastructure as Code (IaC) strategies and automated configuration management processes, delivering robust backup, recovery, and failover capabilities, ensuring business continuity and reducing operational overhead by 20%.
- Leveraged DevOps practices to integrate performance optimization tasks—such as query plan analysis, index tuning, and schema refactoring—directly into deployment pipelines, improving query response times by 25% and enhancing overall system reliability.
- Streamlined database migrations to AWS and Azure using containerization, automated rollouts, & rollback strategies, reducing migration time by 40% and downtime by 30%, while ensuring compliance with DataOps principles and transforming legacy databases into scalable, cloud-native ecosystems.

EDUCATION

Master of Science in Applied Science & Technology

Haramaya University
July 2018

Postgraduate Program in Cloud Computing

University of Texas
Apr 2024

CERTIFICATIONS

- AWS Certified DevOps Engineer - Professional
- AWS Certified Solutions Architect - Associate
- MuleSoft Certified Developer - Level1 (MCDL1)

LANGUAGES

English

Amharic

Polish

SysOps Administrator - AWS Cloud

Property Management Experts LLC, Virginia — Oct 2018 – May 2020

- Leveraged DevOps practices to provision and manage infrastructure as code (IaC) using Terraform, ensuring secure, high-performing, and reliable environments for mission-critical applications.
- Integrated modern monitoring and observability stacks (Prometheus, Grafana, ELK, Datadog) into GitLab CI/CD pipelines to proactively identify, diagnose, and resolve performance issues, delivering near-zero downtime and a seamless user experience.
- Automated operational workflows (server provisioning, patch management) using scripting languages and configuration management tools (e.g., Ansible, Chef, Puppet), driving continuous improvement, increasing efficiency by 35%, and reducing manual intervention by 45%, while ensuring compliance with governance standards.
- Implemented robust backup and disaster recovery strategies, leveraging tools such as AWS Backup, Azure Site Recovery, and custom automation scripts to ensure business continuity, minimize data loss, and meet RTO/RPO objectives during system failures or outages.

PROJECTS

- **End-to-End DevOps Project:** Led the design and implementation of a comprehensive DevOps pipeline, leveraging Terraform for infrastructure provisioning, Docker for containerization of microservices, and Kubernetes for orchestration. Developed and deployed an automated CI/CD pipeline with Jenkins to support a multi-region AWS infrastructure. Additionally, designed and deployed RESTful APIs using Python Flask.

- **Auto Scaling with AWS:** Designed and implemented an Auto Scaling solution using AWS EC2 Auto Scaling, ELB, and CloudWatch to dynamically adjust resources based on traffic fluctuations, ensuring high availability, optimal performance, and cost efficiency.

- **Database Migration to AWS RDS:** Led the migration of a large-scale database from on-premise MySQL to AWS RDS, improving performance, reliability, and cost savings. Implemented backup, disaster recovery, and monitoring strategies for seamless operations. Used Test-Driven Development (TDD) to ensure the integrity of data migrations.