

MESFIN GETACHEW

DEVOPS ENGINEER

CONTACT

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SKILLS

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

EXPERTISE

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

PROFILE SUMMARY

Experienced DevOps Engineer with 6+ years of expertise in cloud infrastructure automation, CI/CD pipelines, and database management. Proficient in AWS, Azure, Docker, Kubernetes, and Infrastructure as Code (IaC) tools like Terraform and CloudFormation. Skilled in optimizing system scalability, streamlining operations, 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 Inc, Silver Spring, MD

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.

DevOps Engineer

CDI Tech, Arlington, VA

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 & CERTIFICATIONS

Postgraduate Program in Cloud Computing –
University of Texas, Austin, TX

MSc in Electronics Engineering – Czech
Technical University

AWS Certified DevOps Engineer – Professional

AWS Certified Cloud Practitioner – Associate

MuleSoft Certified Developer – Level1
(MCDL1)

LANGUAGES

English

Amharic

Polish

Cloud Operations Engineer

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

- 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.
- Developed a scalable e-commerce platform using React, Node.js, and MongoDB. Implemented CI/CD pipelines with Jenkins, Docker, and Kubernetes, deployed on AWS. Automated infrastructure with Terraform and monitored performance using Prometheus and Grafana.
- 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.