

Bushra Mustofa

Senior DevOps Engineer

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Seasoned and results-driven Senior DevOps Engineer with 5+ years of hands-on experience in designing, building, and maintaining scalable cloud infrastructure and modern application delivery pipelines. Proven expertise in cloud-native technologies, infrastructure as code (IaC), CI/CD automation, and container orchestration. Skilled in bridging development and operations through efficient DevOps practices and a strong foundation in full-stack development.

Skills

Ansible · Argo · AWS · Cloud Computing · Docker · ElasticSearch · Jenkins · Kubernetes · Microsoft Azure · MongoDB · MySQL · Nginx · PostgreSQL · Puppet · Selenium · Sonarqube · Splunk · Terraform · Grafana · HaProxy · JFrog · helm · HashiCorp Vault · Prometheus · Datadog

Links

Portfolio Website bushmusi.netlify.app/

Work Experience

Senior DevOps Engineer · Safaricom PLC September 2023 - Present

- Designed, deployed, and managed containerized apps in complex microservices environments using Kubernetes for scalable, highly available orchestration.
- Used Docker to containerize applications, accelerating deployment, iteration, and release cycles.
- Managed Docker images with Docker Registry and Harbor, ensuring secure, efficient storage and distribution.
- Leveraged VMware vSphere with Terraform and Ansible to provision CI/CD and implement Infrastructure as Code (IaC), optimizing virtualization and enhancing infrastructure scalability and efficiency.
- Led CI/CD implementation using Jenkins for continuous integration, JFrog Artifactory for artifact storage, and Argo CD for continuous delivery—automating build, test, and deployment workflows to accelerate delivery and simplify service management.
- Implemented and managed Argo CD for GitOps, enabling version-controlled deployments and efficient rollbacks.

Senior DevOps Engineer · Excellerent Solutions · Pennsylvania, USA March 2024 - May 2025

- Deployed services with Azure CLI, PowerShell, and Docker.
- Integrated SonarQube and third-party tools with repo management and tracking; managed Azure Repos/GitHub and enabled continuous delivery.
- Deployed and managed web applications (.NET, Node.js, Python) on App Service; configured auto-scaling, custom domains, and SSL certificates.
- Monitored App Service with built-in metrics/logs; troubleshooted and optimized performance.
- Provisioned and managed Linux VMs; optimized costs with right-sizing, auto-shutdown schedules, and reserved instances.
- Utilized Azure Monitoring, Log Analytics, and Alerts; applied Azure security services like Key Vault.

DevOps Engineer and Frontend Developer · DAF Technologies · Addis Ababa, Ethiopia January 2023 - September 2023

- Enhanced CI/CD pipeline with GitLab, automating build, test, and deployment processes.
- Led the adoption of Kubernetes for container orchestration, enabling seamless scaling and management of containerized applications.
- Introduced Datadog as the central monitoring and visualization tool.
- Leveraged Terraform to define infrastructure as code, making infrastructure provisioning and updates consistent and reproducible.
- Successfully implemented cloud infrastructure on AWS and Digital Ocean, enabling flexible and cost-effective scaling of resources based on demand.

DevOps Engineer · Information Network Security Administration · Addis Ababa, Ethiopia August 2021 - January 2023

- Migrated legacy monolith to microservices with Docker, Kubernetes, and Node.js, enhancing scalability and maintainability.
- Built a Django REST API and integrated it with React, boosting UX and cutting API response time by 50%.
- Optimized PostgreSQL queries, reducing execution time by 30% and improving system performance.
- Set up CI/CD pipelines with Jenkins and GitLab, streamlining the development workflow.
- Led internal sessions on serverless and reactive Node.js, staying current with industry trends and emerging tech.

Software Developer · Awtar Multimedia · Addis Ababa, Ethiopia March 2021 - August 2022

- Deployed Project on AWS using EC2 service, S3, and RDS.
- Modified the company website for mobile clients.
- Added music sponsorship, individual gift, and BatchGift feature.
- Introduced GitFlow, GitHub-flow, and Jira project management.

Software Developer · XOKA IT Solution PLC · Addis Ababa, Ethiopia December 2020 - March 2021

- Introduced GitFlow, Azure DevOps, and Microservice.
- Introduced TDD Approach.
- Refactored the source code to use state management.
- Made a documentation manual about the company's tech staff for a new employee.

Education

Adama Science and Technology University | BSc Grad January 2021

Computer Science and Engineering · Grade: 3.26

Adama, Ethiopia

Graduated from the School of Electrical Engineering & Computing with BSc Degree in Computer Science and Engineering (Major GPA of 3.42 and CGPA of 3.26) with Distinction.

Microverse | Certificate Grad September 2022

Computer Software & Media Applications

Mastered mainstream technologies in web Development (React & Redux, JavaScript, Ruby on Rails, Ruby, SQL, HTML5, CSS3). Gained professional experiences with industry best practices (Git flow, Linter, pair-programming, OOP, TDD, MVC). Gained proficiency in coding with 100+ hours in studying data structures and algorithms, solving challenges on Hackerrank, Codechef, Leetcode, Repl.it. Become a global citizen by spending 800+ hours in remote working with team members from all over the world (Over 25 countries).

Certifications

Microsoft Certified: Azure Fundamentals

July 2021

Microsoft

Recognized as a Microsoft Certified: Azure Fundamentals.

DevOps on AWS: Code, Build, and Test

January 2020

Amazon Web Services(AWS)

Certificate teaches automation of the software development lifecycle with AWS services like CodeCommit, CodeBuild, CodeDeploy, and CodePipeline, emphasizing continuous integration, delivery, and automated testing to optimize the development process.

AWS Cloud Technical Essentials

January 2023

Amazon Web Service(AWS)

Certificate covers the foundational AWS cloud services, including EC2, S3, IAM, and VPC, to help learners deploy and manage applications in the cloud.

CISCO CCNA Certificate

December 2020

Adama Science and Technology University

Completed the following courses of Cisco Certified Network Associate (CCNA) Routing and Switching Training Program.