

LOUIS MCCARTER

DevOps Engineer // Cloud Engineer // Solutions Architect

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SUMMARY

I am an accomplished and dedicated IT professional with 8+ years of diverse experience, proficient in numerous roles. Throughout my career journey I have had deep commitment to organizations in building/enhancing systems, automating processes, and optimizing infrastructure to ensure top-notch performance, reliability, and scalability.

- Good knowledge of software methodologies such as SDLC, Agile and Waterfall.
- Working Knowledge of DevOps tools such as Ansible, Jenkins, Maven, ANT, Splunk, SVN, GIT and Docker.
- Knowledge of Infrastructure Development and Operations, involved in designing and deploying utilizing AWS stack like EC2, EBS, S3, VPC, RDS, SES, ELB, SQS, Redshift, Auto scaling, Cloud Front, Cloud Formation and Cloud Watch.
- Proficient in using Build Automation tools and Continuous Integration concepts by using tools such as ANT, Jenkins, and Maven, Gradle.
- Proficiency in Python, Shell Scripting, SQL, build utilities like open make, ANT and Cruise Control.
- Good understanding of Relational Database Systems.
- Capable in using Bug tracking tools such as JIRA.
- Understanding Of Apache Kafka

SKILLS

- Fundamental knowledge on Operating Systems (Linux and Windows)
- Knowledge of any SQL and NoSQL databases with respective interfacing constructs.
- Basic computer networking knowledge (DNS, Active Directories)
- Knowledge of JSON and YAML data constructs.
- Design, deploy, and management of AWS Cloud Platform.
- Experience with AWS multi-region deployments
- Knowledge on Microsoft Azure and Google Cloud platforms
- Knowledge of Cloud Networking and hands experience with AWS cloud Networking (VPC, EC2, Route 53, Load Balancers, Amazon Gateway).
- Compute - EC2, Lambda and Laravel Vapor
- Network & Content Delivery - VPC, CloudFront, Route 53, TPC/IP
- Storage - EFS, S3 Storage Classes, EBS, Groovy
- Databases - RDS, DynamoDB, ElastiCache, MySQL, PostgreSQL, MongoDB
- Security, Identity, & Compliance - IAM, Secrets Manager, GuardDuty, AWS Single Sign-on Service, WAF & Shield, AWS Firewall, encryption, and key services

- Migration - AWS Migration Hub, Database Migration, Application Discovery Service, Server Migration Service
- Management & Governance - AWS Organizations, Ansible, CloudWatch, Auto Scaling, CloudFormation, CloudTrail, Config, Service Catalog, Systems Manager, Trusted Advisor, Control Tower
- Containerization and *Orchestration* Tools - Kubernetes, Docker, Elastic Container Service (ECS), Elastic Kubernetes Service (EKS)
- Developer Tools - CodeCommit, CodeArtifact, CodeBuild, CodeDeploy, CodePipeline, CloudShell
- CI/CD Open-Source Tools - Jenkins, Maven, GitHub, Gitlab
- Setup and maintained Git repositories along with the creation of branches and tags
- Automation tools - Cloudbolt, Morpheus, GitLab CI/CD, Terraform
- Ticket Tracking Tool - JIRA
- Scripting Languages- Python, Bash, PowerShell, Java, PHP, .NET, Golang, Ruby, Linux, JSON, SQL, html, PowerShell
- DevOps related knowledge on Enterprise Application Development (Java) Operating Systems (Linux, UNIX, Solaris, and Windows Server 2008/2012/2016).
- Business Intelligence (BI) & Dashboard Reporting
- Systems Integration (Core Banking Application & Fin Tech).
- Product & Project Management. (Data Trending, Market Insight, Process reengineering).
- Digital Payments & FinTech Expert.
- Managing and deploying; IaaS, PaaS, SaaS, and On-prem Infrastructures
- Cloud Engineering (AWS Solution Architect)
- IaC: Terraform, CloudFormation
- Kubernetes (Pods, Nodes, ETCD, RESTAPI, Services, Deployments, RBAC, DNS)
- Building; continuous security, Continuous Integration, Continuous Delivery, Continuous Provisioning, Continuous Configuration, Continuous deployment, Continuous testing, Continuous Monitoring Jenkins pipelines with; Docker, Kubernetes, Helm, Ansible, Terraform, GitHub, Git, Groovy, AWS Code Build, Code Pipeline, Prometheus and Grafana, Nexus, AWS EKS, AWS Code Commit, EFK/ELK.

EDUCATION

- Bachelor's in Science in Computer Engineering || *University Of Buea, Cameroon (2014)*

CERTIFICATION

- HashiCorp Certified: Terraform Associate
- AWS Certified DevOps engineer-professional
- AWS Certified Solutions Architect-Associate
- CKA: Certified Kubernetes Administrator

TOOL CHAIN:

- - Terraform, Ansible, Kubernetes, Helm, Docker Swarm, Docker, Jenkins, Apache httpd, Nginx, HAProxy, Tomcat, Wildfly/JBoss, Nexus, Maven, Sonar Qube, SCM, Git/GitHub, Groovy.
- NewRelic, Prometheus, Grafana, ELK/EFK, Linux, UNIX, Windows, VScode, SVN, AWS CloudFormation, AWSEC2.
- AWSIAM, AWS Cloud Watch, AWSELB, AWSEBS, AWSEKS, AWSVPC, Route53, Secret Manager, etc.

HANDS ON EXPERIENCES

UNICA Corporations, Waltham, MA | Jan 2021– Current | DevOps Engineer

- Proficient in Groovy scripting with 6 years of experience, demonstrating expertise in developing and maintaining automation scripts for various software projects. Skilled in leveraging Groovy's dynamic features to enhance build automation, testing, and deployment processes. Strong familiarity with Groovy-based frameworks like Gradle and Spock. Proven ability to optimize code for efficiency and readability, contributing to streamlined development workflows.
- Developing and implementing Software Release Management strategies for various applications according to the agile process.
- Designing and developing solutions for CI/CD and Release Management using GIT, Jenkins, Maven, Docker, and Kubernetes which propagates microservices from dev to production.
- Using Jenkins to drive all microservices builds out to the Docker registry and then deployed to Kubernetes.
- Automating infrastructure provisioning and configuration using Terraform and Ansible with Dynamic Inventory.
- Ability to build deployment, build scripts and automated solutions using scripting languages such as Python, ShellScripting and PowerShell.
- Performing system administration and operations tasks using Chef and Nagios.
- Deploying and operating AWS, specifically VPC, EC2, S3, EBS, IAM, ELB, Cloud Formation and Cloud Watch using AWS Console and AWS Command Line Interface.
- Used Gradle and maven for building applications and written structured pom which can be consumed by Jenkins.
- I have deployed resources using Laravel Vapor which is a serverless deployment platform powered by AWS Lambda.
- Event triggers with AWS Lambda and python programming functions
- Build Release Engineering and configuration management which includes environment setup, build automation, continuous integration, Scripting and deployments.
- Good exposure to all phases of Software Development LifeCycle (SDLC).
- Building and configuring Kubernetes Cluster ensuring that nodes/pods can autoscale and load balance.
- Building Complex Automated CI/CD pipelines using multiple interconnected tools.

- Proposed and implemented the migration from monolithic architecture to microservices.
- I have configured continuous monitoring using New Relic, Prometheus and Grafana.
- Data Analytics and log management using EFK (Elastic search File beats and Kibana).
- I have installed and configured web/application Servers (JBoss/Wildfly, Nginx, Apache, Tomcat).
- I have configured, installed, resized and deployed Elastic Computers in AWS and Google cloud.
- Using Docker for containerization with Docker Swarm and Kubernetes for container orchestration.
- Writing, modifying and maintaining; ansible playbooks, and automation scripts.
- Worked with Open SSL and related certificate management

Dominion Systems, CA | Feb2018-Jan2021 | DevOps Engineer

- Involved in the complete Software Development life cycle (SDLC) to develop application.
- Virtualized the servers using Docker for the test environments and dev-environments needs, also configuration automation using Docker containers.
- Implemented Kubernetes to deploy scale, load balance, scale and manage docker containers with multiple namespaced versions.
- Deployed applications on to Application servers such as Apache Tomcat.
- Managed all the bugs and changes in to a production environment using the Jira tracking tool.
- Used CI/CD tools like Jenkins, Git/Gitlab, Jira and Docker registry/daemon for configuration management and automation using Ansible.
- Created infrastructure in a coded manner (infrastructure as code) using Puppet, Chef and Ansible for configuration management of virtual environments, and Vagrant for virtual machine and resource control.
- Maintaining the version across the Environments using SCM tools such as Git and GitHub.
- Implemented unit testing framework driven using Junit and Cucumber.
- Strong experience in enhancing security configuration in Linux, Windows, Docker and Kubernetes.
- I have configured hybrid cloud networks and transit gateways.
- Experienced in using terraform, AWS SDK, AWSCLI/UI, kops and ansible to provision and configure infrastructures in AWS Cloud including; VPC, Route53, Private and Public subnets, route tables, IGW, EC2 Instances, IAM, ELB, Autoscaling, CloudWatch, EFS, NFS, EBS, S3, Databases, Lambda security groups, NACLs, among others.
- Participate in recruitment, on boarding and training of new recruits.
- Recommendation or introduce new technology, attend training or job-related seminars

ALLSTATE – Northfield Township, IL | June 2016 – June 2018 | Cloud Engineer

- High Availability Implementations: Designed and implemented fault-tolerant solutions, including multi-region failover and load balancing configurations. Achieved a 99.99% uptime for critical applications, ensuring seamless user experiences.
- Security Enhancements: Implemented robust security measures, including IAM policies, network security groups, and SSL certificates. Conducted regular security audits, resulting in a 30% improvement in overall cloud security compliance.

- **CI/CD Pipeline Automation:** Spearheaded the development and integration of CI/CD pipelines using tools like Jenkins and GitLab. Reduced deployment times by 50% and enhanced development team productivity.
- **Disaster Recovery Planning:** Led the creation and testing of disaster recovery plans for cloud-based services. Ensured business continuity with minimal data loss during unforeseen incidents.
- **Performance Optimization:** Conducted thorough performance monitoring and tuning of cloud-based applications. Improved response times by 25% and increased application scalability to handle growing user demands.
- **Cloud Migration:** Successfully migrated on-premises infrastructure and applications to the cloud for multiple clients. Achieved a seamless migration process, minimizing downtime and ensuring data integrity.

MTN CAMEROON – Littoral Region, DLA | Jan 2015 – Feb 2016 | System Administrator

- Created and maintained user/service accounts, passwords and profiles, home directories, initialization of files, group creation management.
- Setup, configuring and troubleshooting TCP/IP,DHCP,DNS in a multiple LAN
- Active Directory and Window server management.
- Plan and create various server build through VMware, Virtual Box and AWS Cloud, supervise allocation of hostnames, static IP addresses, default gateway addresses, and DNS addresses to Windows servers. Oversee and manage AWS cloud resources using suite of tools.
- Configure DNS, Active Directory, Group Policies objects by using “dcpromo” tool and promote Standard Windows servers to domain controllers.
- Configured hybrid network to expand LAN into AWS Cloud and resolve client issues by using remote desk top utility tools.
- Plan, install, and perform NO imaging of Windows7, 8 and 10, while establishing new user accounts on Windows NOS, UNIX, and LINUX systems.
- Reset root password of Solaris10, Centos6.4, 7 and 8 as well as fix OS, application, malware desktop issues on various Windows NOS.
- Identify and troubleshoot network connectivity issues by using TCP/IP tools.
- Used zpool in creating and replacing disks, adding space and importing and exporting zpools.
- Creates LVM(Logical Volume Management), SVM to manage volumes Linux and Solaris
- Revamped company's systems set up, developed automated server generation routines, optimized system performance, installed upgrades/patches, and set system monitoring and maintaining security protocols.

Successfully earned 100% issue-resolution scores by delivering excellent service to internal/external customers, while serving as main escalation point for troubleshooting advanced network/systems issues.