

# Kimberly C. Alfred

## Azure DevOps Specialist/ Cloud Systems Engineer

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Highly motivated professional with 5+ years of experience in IT industry comprising of Linux System Administration, DevOps Engineering, and in automating, building, releasing of code from one environment to other environment and deploying to servers. Extensive experience includes Docker, Kubernetes, GIT, AWS, Azure, DevOps, Terraform, Build/Release Management, Cloud Management, Containerization and Databases. 5+ years of experience in supporting & automating critical deployments over large infrastructure. My unique and distinguishable talents in IT allow me to raise the bar in professional organizations that empower myself and my colleagues to surpass their expected performance outcomes.

### Technology Summary:

- Cloud platforms: Microsoft Azure, Amazon Web Services (AWS)
- Framework/DevOps tools: JIRA, SonarQube, Nexus, Jenkins, Slack, Azure DevOps, Confluence
- Build Tools: Ant, Maven, MS Build
- SCMs: SVN, Git, GitHub, Bitbucket, GitLab, Azure Repos
- IAC Tools: Ansible, Terraform
- Containers/Orchestration: Docker, Kubernetes
- Application/Web Servers: Tomcat, WebLogic 9.x/10.x/12c, Apache 2.x/1.3.x, JBoss 7.1
- Operating Systems: HP-UX, Solaris 10, Ubuntu 16.0.4, Red Hat Linux, Windows
- Databases: Oracle, SQL Server, MySQL
- Programming Languages: Java
- Scripting & Other Tools: Groovy, UNIX Shell Scripts (Ksh, Bash), Git Bash

### Expertise:

- Extensive experience in setting up CI/CD pipelines using tools such as Jenkins, Maven, Docker, Nexus, Artifactory, Slack and Azure DevOps.
- Strong experience in migrating applications to both and Azure cloud platforms.
- Developed and maintained Continuous Integration (CI) using tools in Azure DevOps (VSTS) spanning multiple environments, enabling teams to safely deploy code in Azure Kubernetes Services (AKS) using YAML scripts.
- Managing the Azure Kubernetes Services (AKS) policies, providing access to different Azure resources and developing and improving the workflows that govern access.
- Experience with version control tools such as GIT, GitHub, Azure Git and Bitbucket. Comprehensive knowledge of source controller concepts including branches, tags, and merges.
- Creating documentation & runbooks for 2012 in-place upgrade of Azure servers & exceeding end of year company initiatives using this process across multiple teams
- Worked with Azure Monitoring tools such as Azure Log Analytics, Azure Network Watcher, and Azure Service Health to diagnose and minimize service degradation. Experience in using monitoring tools like Azure monitoring to set up the desired alerts to avoid disruption.
- Created ARM Template for deploying the resources into Azure using PowerShell and continuous integration by VSTS.
- Deployed Azure IaaS virtual machines (VMs) and Cloud services (PaaS role instances) into secure VNets and subnets using PowerShell.
- Designing and implementing Azure Solutions across a range of cloud models like SaaS, PaaS, IaaS, and integrated on-premises, on-demand workloads with the Azure public cloud.
- Worked on Microservices for Continuous Delivery environment using Azure, Docker. Involved in setting up a Microservice architecture for application development and implemented high availability with Azure Classic and Azure Resource Manager deployment models.

- Extensively worked on building, installing & maintaining servers, creating multiple resources like in Azure through Azure Resource Manager Templates (ARM) or Azure Portal and provisioned them using Terraform templates. Also worked on Virtual networks, Azure Custom security, endpoint security and firewall.
- Worked in setting up Azure Virtual Appliances (VMs) to meet security requirements as software-based appliance functions (firewall).
- Utilizing various resource monitoring tools such as: Tanium, Logic Monitor, New Relic, Axonius
- Developed and designed Azure DevOps pipeline to manage the resources across multiple subscription in Azure.
- Worked with Version Control, Build & Release Management and Deployments of the Solutions to the DEV, QA & PROD Environments leveraging Azure DevOps/VSTS principles/process (CI/CD) and toolsets of Visual Studio, AKS (Azure Kubernetes Service), Application Insights, Log Analytics.
- Provisioning servers/instances using infrastructure as code such as Terraform. Code is stored in a private repository and constantly updated.
- Worked on Terraform templates also for provisioning virtual networks, subnets, VM Scale sets, Load balancers. Configured BGP routes to enable ExpressRoute connections between on-premises data centers and Azure cloud.
- Lead consultant & SME for organizational migration project moving from JIRA to Azure DevOps

### Professional Experience:

**Signify Health Aug 2023 – March 2024**

**Cloud Systems /Azure DevOps Engineer/System Administrator**

- Documenting the architecture, design decisions, configurations, and procedures related to Azure resources and applications.
- Responsible for designing, implementing, and maintaining cloud-based solutions using Microsoft Azure's suite of services.
- Create and maintain documentation for processes, configurations, and procedures related to the DevOps environment.
- Utilizing various tools (New Relic, Tanium, Orca) to ensure the health and availability of Azure services and applications.
- Keeping up to date with the latest Azure services, features, best practices, and industry trends to continuously improve the organization's cloud infrastructure and processes.
- Collaborate with cross-functional teams including System Administrators, Database Administration, NETOPs, Software Engineers and QA to facilitate the deployment, operation & maintenance of systems.
- Remediating multiple security issues in Orca alerts and findings (P1, P2, P3)

**NanoSoft Consulting LLC, Cleveland, OH**

**Azure DevOps Engineer/Cloud Systems Engineer/System Administrator**

**June 2018 – Present**

Maintain Continuous Integration and Continuous Deployment (CI/CD) pipeline for fast paced robust application development environment.

- Creating documentation for various processes in Confluence (migrations, up-grades, security issues)
- Migrating/updating servers and installing new software for various servers and infrastructure in offices across the US.
- Integrating Azure with Workfront Fusion, connect applications, services, and data to Azure Boards (API)
- Set up Azure CI/CD pipelines for Microservices and integrated tools such as Maven, Bitbucket, SonarQube, Nexus, Docker, Slack for providing immediate feedback to DEV teams after code check-in
- Troubleshoot Azure CICD Pipelines .Net Applications
- Set up Git repositories and SSH Keys in GitHub for Agile teams
- Implement the setup for Master/Slave architecture to improve the Performance of Jenkins.
- Created Docker file and automated docker image creation using Jenkins and Docker.
- Automated infrastructure provisioning on Azure using Terraform and Ansible.
- Create nightly builds with integration to code quality tools such as SonarQube, Veracode.
- Create quality gates in SonarQube dashboard and enforce in the pipelines to fail the builds when conditions not met.

## Background Check Systems, Cleveland, OH

### Azure DevOps Engineer

March 2015 – June 2018

Architecting, automating, and optimizing mission control deployments over large infrastructure using Configuration Management tools, and in developing CI/CD pipelines.

- Setup repos on Azure Git, merging code from develop branch to master branch and make it ready for deployment.
- Migrated legacy applications to Microsoft Azure Cloud PaaS by setting up CI/CD pipelines on Azure DevOps.
- Created WebApps (PaaS solutions) on Azure portal for deploying web applications using Azure DevOps pipelines.
- Created nightly builds with integration to code quality tools such as SonarQube, Veracode.
- Helped teams to reduce defects rate by 30% by introducing TDD in the first 3 months.
- Created quality gates in SonarQube dashboard and enforced in the pipelines to fail the builds when conditions were not met.
- Set up the SonarLint plug-ins in developer's workstation for detecting defects early during development.
- Planned and created serene API and administrations utilizing best practices to cooperate inside the Microservices and with the front end.
- Experience working with developing scripts and automation tools used for building, integrating, and deploying software releases to multiple environments.
- Strong hands-on experience in scripting languages such as JSON, YAML, Ruby, Shell scripting.
- Strong experience in code quality and code coverage tools such as SonarQube, JaCoCo and JUnit.
- Good knowledge of virtualization and container technology like Docker. Experience in creating Dockerfiles and working with Docker containers.
- Strong exposure to configuration management tools such as Terraform, & Ansible
- Strong knowledge in Tomcat, WebLogic servers on different Operating Systems like Windows, Linux VMware, UNIX and Solaris platforms.
- Participated in the release cycle of the product which involved environments like Development, QA UAT and Production.
- A highly motivated, energetic individual, a team player with excellent communication and inter- personal skills

## Education:

Concordia University, Portland, OR — *Doctoral coursework in Teacher Leadership (45 hours)*

May 2014 - July 2017

Notre Dame College, South Euclid, OH — *Master of Education*

Major: Intervention Specialist/Special Education

Minor: Instructional/Educational/Informational Technology (Endorsement)

August 2008 - May 2011

The Boston Conservatory, Boston, MA — *Music Education w/Flute Emphasis*

August 1995 - May 1999