**USHALATHA P**

**CLOUD INFRASTRUCTURE | DEVOPS ENGINEER**

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Solutions-driven Cloud/DevOps Engineer with over 10 years of experience in cloud systems, automating infrastructures, building tools, DevOps, and monitoring software deployments, coordinating, and pushing new releases to the production infrastructure in Cloud/On-prem. Automation Engineer with a passion for developing scripts and CI server templates to automate multi-language CI processes, including build, test, static analysis, packaging, and artifact distribution. Positioned to apply leading technology to address real business problems and collaborate globally to deliver high- quality,

robust and scalable software systems while learning and growing as an individual.

* Experience in working under ever fluctuating and challenging environments with several high-profile clients, delivering state of the art quality solutions to meet the customer needs.
* Experience in managing a team by taking daily standups and providing guidance in resolving complex issues.
* Understanding of cloud offerings and ability to discuss cloud architectures; familiarity/Strength with Azure and related Azure services.
* Experience in handling **Production and Pre-Production** deployments and resolving complex production issues.
* Extensively worked on **Teamcity, Jenkins and Rundeck** for CI/CD and for End-to-End automation for all Build and deployments.
* Strong scripting and Programming skills in **Perl**, **Bash**, **PowerShell and Python**.
* Experience in development of UI tools on **ASP.net (C#)**, **PHP** and **CGI (Perl).**
* Experience in database design and development using SQL Azure, Microsoft SQL Server.
* Experience with relational and NoSQL databases **(Oracle, MySQL, MSSQL)**.
* Experience in the source code management systems **(Git, GitHub)**
* Experience in infrastructure automation using **Terraform** in the cloud (Microsoft Azure).
* Designed and implemented Software configuration management (SCM) and change management (CM) solution using **Ansible, Jira and Jenkins**.
* Exposure in managing and setting up Continuous Integration using tools like **Jenkins, Docker**.
* Experience on using SCM tools like SVN, GIT and its web repositories in **GitHub, Bitbucket** for source code storage and management.
* Understanding and Experience on various deployment models (**Blue-Green, Canary**).
* Experience on Branching and Tagging concepts in Version Control tool GIT.
* Exposed to all aspects of Software Development Life Cycle (SDLC) such as Analysis, Planning, Developing, Testing and Implementing and Post-production analysis of the projects.
* Experience in analyzing and monitoring the logs using tools such as **Splunk, Dynatrace, WhatsUP**.
* Experience with Linux operating systems and administration.
* Strong troubleshooting skills and system methodologies to analyze faults.
* Experience working in an Agile environment and having experience with Agile frameworks including principles and practices.
* Ability to understand the issues and present clear rationale. Uses two-way communication to influence outcomes and ongoing results.
* Continuously measures deliverables of self and team against scheduled commitments.

**CERTIFICATIONS**

• Microsoft Certified: DevOps Engineer Expert

• Microsoft Certified: Azure Administrator Associate

• Designing and Implementing Microsoft DevOps Solutions

• Microsoft Azure Data Fundamentals

• REDHAT Certified Engineer on RHEL-5

• Certified Ethical Hacker

• BS ISO 27001:2005 Information Security Management System

• ITIL 2011 Design Framework

**TECHNICAL SKILLS**

**Cloud Platform:** Azure, AWS

**Scripting:** Bash, PowerShell, Perl, Shell, JSON, YAML, SQL, CLI, HTML

**Programming Language:** Python, JavaScript

**Version Control:** Git, Azure Git, Bitbucket, GitHub

**CI/CD:** Azure DevOps, Jenkins, Teamcity, Rundeck

**IAC:** Terraform, ARM Template, Ansible

**Container/Orchestration:** Docker, Kubernetes, Openshift

**Performance Monitoring/Logging:** Splunk, Azure Monitor, WhatsUP, Dynatrace

**Others:** Define and manage the release Cycle, Usage of Pipeline tools e.g., GitHub Actions, Azure DevOps, Teamcity, Jenkins, Experience in containerization with Docker, Docker-compose, Kubernetes, Provision and configure infrastructure through automation

**P R O F E S S I O N A L E X P E R I E N C E**

**Cloud /DevOps Engineer - Remote**

**Software Engineer Oct 2021 - Till date**

**Vantage Point Consulting Inc.**

* Leading the Devops team by organizing the tasks, providing guidance and direction on resolving the issues.
* Developing CI/CD roadmap and implementing to the project.
* Play a significant role in establishing operational processes for a fast-growing distributed cloud platform.
* Experience on working with **Nexus Repository** and integration of the**Sonatype vulnerability scan** within the build and deployment model.
* Handle production deployments and assist in resolving complex production issues using APM tools like **Splunk, Dynatrace,WhatsUP** etc.,
* Working on configuration of deployments using **S2I and Podman** and deploying them on the Openshift cluster.
* Setup and maintenance of CI & CD pipeline using tools like **Team city, Jenkins** and **Rundeck**as well as VCS like **Git** and **Bitbucket**.
* Setup and manage infrastructure on Azure, AWS by using **Terraform** modules.
* Automation of the tasks using **PowerShell, Perl** scripts for deployments.
* Deploying and managing Azure resources while leveraging automation pipeline for fast paced robust application development environment.
* Compiling software and packaging builds using standard Microsoft tools
* Work with IT, QA, Development and Product teams to identify, debug, and resolve build or deployment issues.
* Develop, manage and execute automation processes for the cloud environment.
* Develop and automate standard operating procedures around common failure scenarios. Monitor, analyze, and report performance statistics for cloud hosted environments.
* Scaled, optimized and improved organization’s containerization systems by integrating Azure Kubernetes Service while leveraging the Azure container registry as the image repository.
* Refactored an on-prem application to Azure on AKS, connected the AKS to ACR using Azure managed identity and ran the workflow through Azure DevOps Managed Kubernetes deployment using Helm.
* Created reproducible builds of the Kubernetes applications, managed Kubernetes manifest files and Managed releases of Helm packages.
* Managed the deployment of virtual instances in Azure using ARM and or Ansible which includes managing the cloud resources to CI/CD pipeline workflow.
* Drove initiatives to continuously improve platform performance, scalability and reliability. Deploy azure resources using Terraform, Azure ARM template, Azure CLI, PowerShell, Bash, Portal.
* Terraform as it relates to orchestration, using Terraform in general (private or public cloud)
* Python experience and understanding API calls Git repository experience and using that as it relates to Terraform, Ansible, python, DevOps.

**Technical Specialist Sep 2012 – Apr 2017**

**Cognizant Technology Solutions**

* Created and maintained fully automated CI/CD pipelines on Azure DevOps to configure hardware, applications, services, database, and storage on Virtual Machines running on Hypervisor.
* Worked closely with External Vendors and Business Analysts to address and support

Infrastructure Automation and manage Azure cloud offerings proactively

* Implemented and manipulated Shell and Python scripts for release and build

automation to suit the requirement.

* Expertise in using CI/CD tools **GIT, Jenkins, Ansible** which reduces the effort of developers and operations in performing maintenance and daily operations.
* Developed a UI Automation tool in ASP. Net which integrates with PowerShell API’s for configuring and deploying multiple virtual instances which considerably reduces drastic manual effort.
* Managed and improved build, test automation and source code control systems (Git, GitHub).

**Sr Software Engineer Mar 2010 – Sep 2012**

**HSBC**

* Developed Perl/Python/Shell Scripts for automation of host-based security scanning tools to recognize the vulnerabilities present in different flavors of UNIX servers used in HSBC.
* Deployed and configured Git repositories with branching, tagging, and notifications.
* Experienced and proficient in deploying and administering GitHub.
* Deployed builds to UAT and work with the teams to identify and troubleshoot any issues.
* Applied redirection rules in Apache based on redirection conditions provided.
* Automation and Enhancements to support the new requirements and Unit testing.

**Senior Software Engineer Apr 2007 – Mar 2010**

**MACH Mobile Solutions**

* Collaborated with Stakeholders and Application team members to identify application

requirements and solutions. Delivered solution on time, on spec and on budget.

* Designed database to collaborate and share data between 2 independent products - One1Clear

Finance and Hubbing.

* Involved in development and integration of complex business layer components like Client-

specific reports, PDF Invoice Generation and migration of flat file database to Oracle

**Software Engineer**

**WIFI Networks Pvt ltd, India Feb 2005 - Mar 2007**

* Responsible for Installation and Configuration of IVRS Servers including performance, diagnosis and troubleshooting.
* Performed integration for existing software product and getting incompatible platforms to work together.
* Written custom Perl scripts for IVRS to enhance core functionality of PBX servers.
* Developed a reporting tool on frontend using PHP for the clients.

**EDUCATION**

**Bachelor of Technology**

JNTU, INDIA