**VENKAT SAI NAYINI**

**HYDERABAD, INDIA | Email: venkatsainayini1711**@gmail.com **|** **Phone:** (+91) 8008891109

**Summary**

* Over 4 years’ experience in Cloud (AWS, Azure), DevOps, Configuration management, Infrastructure automation, Continuous Integration and Delivery (CI/CD).
* Experience of working as **DevOps** Engineer, **Linux** **system admin**, **Build and Release** Engineer and hands on experience with Configuration Management tools, Build, Deploy, Release Management, and other tools on UNIX, LINUX, and Windows Environment.
* **(CI/CD)** tools like, build configuration, change history for releases, Maintenance of build system, automation & smoke test processes, managing, configuring, and maintaining source control management systems.
* Configured AWS **EC2** Instances using **AMIs** and launched instances with requirements of specific applications.
* Experienced in creating **IAM** roles for the instance to have the permission to send out the metrics to **Cloud Watch** dashboard.
* Experienced in automating system admin tasks like provisioning, installing, configuring, updating, and deploying services using **Ansible.**
* Expertise in tools **Maven, Jenkins, Ansible** for end-to-end build, release, and deployment process.
* Expert **CD** pipeline involving **Jenkins, Ansible, AWS** to complete the Automation from commit to Deployment.
* Implemented **Ansible** as configuration management/Orchestration tool and managed **Ansible** Playbooks with Ansible roles, group variables and inventory files. Used file module in Ansible playbook to copy and remove files on remote systems.
* Creation of **Docker images** and linking of **Docker containers** for secured way of data transfer
* Worked with **Terraform** to create stacks in **AWS**, and updated the **Terraform** scripts based on the requirement on regular basis.
* Managed **Kubernetes** charts using **Helm**. Created reproducible builds of the **Kubernetes** applications, managed Kubernetes manifest files and Managed releases of Helm packages.
* Knowledge of **AZURE Cloud Computing Services**.
* Very good Knowledge in Business Intelligent tools like PowerBI, Tableau software.
* Worked with Microsoft PowerBI, for creating Dashboards.

**TECHNICAL SKILLS:**

**Cloud Computing** : Azure, AWS

**Infrastructure as code :** Terraform, Azure Resource Manager (ARM), Ansible

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| **Languages/Scripting** | :Shell Scripting, Python, YAML |
| **CI/CD & Build Tools** | : Jenkins, Maven, Azure DevOps |
| **Version Control Tools** | : GIT, GitHub, Bit Bucket |
| **Bug Tracking Tools** | : Jira |
| **Monitoring & Testing Tools** | : Elastic Search, Kibana, Prometheus, Grafana |
| **Database Technologies** | : MySQL, Mongo DB, SQL |
| **Orchestration Tools** : Docker, Kubernetes, AKS  **Operating Systems**  : Windows, LINUX servers  **Business Intelligent Tools** : Microsoft PowerBI, Tableau | |
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**PROFESSIONAL EXPERIENCE**

**DevOps Engineer |Element Informatics India Pvt. Ltd. From August 2022 PRESENT**

**Element** is a service-based company that brings global industry-leading technologies and relevant industry expertise along with a value-driven approach that results in greater business value. Element serves global companies in Life Sciences, Banking & Financial Services, Retail, Telecommunication and Convergent Media industry sectors.

**Roles and Responsibilities:**

* Worked on refactoring the existing Terraform code.
* Deployed custom and built-in Azure Policies with Terraform in different scopes.
* Developed Terraform modules to provision cloud infrastructure in different environments.
* Responsible for implementing containerized based applications by using Azure Kubernetes Service (AKS).
* Experience in working with **HashiCorp Vault** for maintaining secrets and utilizing secrets.
* Configured and maintained Azure DevOps pipelines to implement the CI/CD process to build and deploying the applications.
* Written Terraform modules to create infrastructure in Azure.
* Used Terraform meta-arguments like count, for each etc.
* Used Terraform Locals to simplify complex logic and used Terraform variables extensively.
* Used Terraform dynamic blocks to create multiple network rules.
* Used Ansible as Configuration management tool, to repetitive tasks, quickly deploys critical applications, and proactively manage changes.
* Created Jenkins CICD pipelines for continuous build and deployment and integrated junit and SonarQube plugins in Jenkins for automated testing and for code quality check.
* Used Kubernetes to deploy scale, load balance, scale and manage Docker containers.
* Containerized applications using Docker file best practices and integrated with different micro services.
* Experienced in creating pods and clusters using templates in Kubernetes and deploy using Helm chart.
* Creating and configuring Azure virtual network and network peering.
* Designed and configured Azure Virtual Networks (vNET’s), Subnets, Azure network settings, DNS settings and Security policies
* Used Azure DevOps services such as Azure Repos, Azure Pipelines and Azure Boards to plan work and collaborate on code development, built and deployed applications.
* Daily monitoring production servers using Grafana and Prometheus which is integrated with Kubernetes, exceptions, and report to the team if something happen during stand-ups.
* Worked on migrating of SAS to Azure Cloud
* Setting up Azure Environment for SAS modules
* Interacting with SAS experts and Data Architects for migration of required SAS modules.
* Creating Dashboards in PowerBI.
* Working on PoC of Creating and replicating SAS Dashboards into PowerBI and tableau.

**CLAN-GROUP INGENUITY DIGITAL, ROME, ITALY 23/02/2020 – 25/04/2022**

**AWS/ DevOps Engineer**

**Responsibilities:**

* Worked in **DevOps** environments with **CI/CD, Build, Source Code** tools such as **Jenkins, GIT/ GitHub, MAVEN, Nexus,** and **SonarQube** and **Tomcat**, integrate and manage projects (**. jar,** war **&. ear)** for efficient software delivery solutions.
* Experienced in branching, tagging, and maintaining the version across the environments using SCM tools like **GIT / GITHUB.**
* Extensively worked on **Jenkins** CI/CD pipeline jobs for end-to-end automation to build, test, and deliver artifacts and troubleshoot the build issue during the **Jenkins** build process and deployed into **Tomcat** Server.
* Created **Ansible Playbooks**, to deploy VM and install the application components as per requirements.
* Involved in implementing & deploying applications in different environments with **Docker containers** & **orchestrating** them using **Kubernetes** as a part of the Proof-of-Concept test.
* Used Jenkins pipelines to drive all microservices builds out to the Docker registry and then deployed to **Kubernetes**, **Created Pods**, and managed using Kubernetes.
* Created and troubleshot **Ansible** **scripts** used **Kubernetes** and **YAML** files to deploy CI/CD applications automatically and Idempotently to reduce time costs.
* Implemented the setup for **Master slave architecture** to improve the Performance of **Jenkins** ◦ Experience with **ticketing tools** like **Jira.**
* Configured AWS **EC2** Instances using **AMIs** and launched instances with requirements of specific applications.
* Experienced in creating **IAM** roles, for the instance to have the permission to send out the metrics to **Cloud Watch** dashboard.
* Experience in creating a new infrastructure on Cloud using **AWS services** like **EC2, EBS, S3, IAM, ELB, VPC, Route 53, Cloud Watch, Cloud Front, CloudFormation, Terraform, etc.**
* Managed environments **DEV, QA, UAT,** and **PROD** for various releases and designed instance strategies.
* Experience in using **Grafana**, **New relic**, **Prometheus** as a monitoring tool for managing Resources.
* Utilized **security** groups**, network ACLs, Internet Gateways, NAT** instances, and **Route tables** to ensure a secure zone for organizations in AWS public cloud.

**Environment:** AWS, Jenkins, Ansible, Maven, Tomcat, Apache, GIT, Docker, JIRA.

**Strateology and IT solutions - Hyderabad, India 12/01/2017 – 31/07/2017** **Customer Service Executive** **Responsibilities:**

* Proctoring Online Exams for the students those who are pursuing masters in united states and monitoring for the complete Exam sessions.
* Team-viewer and Go-to-meeting, Camtasia Applications were used.
* Maintaining the webpage and Administration work.
* Conducting meetings with clients.

# Education UNIVERSITY OF CASSINO AND SOUTHERN LAZIO

MASTER OF SCIENCE - TELECOMMUNICATIONS ENGINEERING 2018-2022 https://www.unicas.it/

# JNTUH College of Engineering Hyderabad

Bachelor of Technology - BTech, Electrical, Electronics and Communications Engineering 2012-2016

**Projects:**

**THESIS - UNIVERSITY OF CASSINO AND SOUTHERN LAZIO 23/04/2021 – 09/12/2021**

**Title: ADAPTIVE AND PERFECTIVE MAINTAINANCE OF DISTRIBUTED PRO-**

**GRAMMING SYSTEM WITH DEVOPS APPROACH**

[**https://papyrus-frontend.herokuapp.com/**](https://papyrus-frontend.herokuapp.com/)

**The purpose of this thesis is to Collect, Store, and Process Manuscripts to secure and results obtained so that everyone can assess the accuracy of the results and the conclusion. The requirements of a research manuscript can vary depending on the type of study and the methodology used for the research. The development of a web application is to display and maintain the stored information of the Ancient Archive of Manuscript Collections. Manuscripts are most useful when they are concentrated in the limited subject field. These build up to impressive documentary strength in large cohesive collections. Organizing Manuscripts, providing guides and assistance in use, and making them known to an active research program. Some general tendencies are visible among present-day Manuscript Depositories. Manuscripts may be in book form, scrolls, or in codex format Materials are including the Manuscript field. Illuminated manuscripts are enriched with pictures, border decorations, elaborately embossed initial letters, or full-page illustrations. They were written by earlier people.**

**INTERNSHIP – UNIVERSITY OF CASSINO AND SOUTHERN LAZIO 1/11/2020 – 22/04/2021** [**https://papyrus-frontend.herokuapp.com/**](https://papyrus-frontend.herokuapp.com/)

**My job is to design, develop a web application. The application contains a rich user interface using MongoDB Database, the application will be user-friendly where you can register and log into the application and create your own posts and manage your profile.**

**My work is with: JavaScript with MongoDB - (server-side). HTML, CSS, and React-Bootstrap, React-JS. other tools: Git, Heroku app, Docker.**