**(Immediate Joiner)**

**Md Azhar Uddin**

**Project Lead**

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**Preferred Location: Bangalore/ Kolkata/Hyderabad/Delhi/Mumbai/Pune/Anywhere**

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**Role and Responsibility of Current Organization**

* **Around 10+ Years of IT experience in Cloud DevOps, Automation and AI Machin learning, Cloud Infrastructure management and Product deployment on**
* **Kubernetes and AZURE and AWS Cloud.**
* Designed and implemented Azure cloud infrastructure for various projects including Virtual Machine, Storage Account, AKS, databases, Virtual network, NSG, Azure Monitor, Load Balancers, Azure Log Analytics, Azure AD, Azure data factory, Resource Manager, third-party monitoring Tools etc.
* Utilize automation tools such as Terraform provision Azure Infrastructure by using Azure DevOps CICD Pipelines.
* Manage, monitor, and troubleshoot Azure DevOps CICD pipelines.
* Provisioning of Micro-Services on Azure Kubernetes Services (AKS) using kubectl and YML code.
* Securing AKS ingress and egress traffic using Application Gateway, Third Party proxy etc.
* Configure and manage AKS Cluster, Node, POD auto-scaling, ReplicaSet.
* Preparing cost optimization for current Azure infrastructure services such as, Virtual Machines, WebApps, Kubernetes (AKS) etc
* Designed and implemented AWS cloud infrastructure for various projects including EC2 instances, VPC, security groups, IAM roles, and S3 buckets, RDS, DynamoDB etc.
* Terraform, Jenkins, CI/CD Pipeline, Ansible, Nexus Artifactory, JFrog Artifactory. python scripting, Azure and AWS CLOUD.
* **Git**, Git pull, Git Push, git fetch, Git rebase, Git checkout, git Cherry pick, git merge, git conflict, **git stashing, git reset, git branching, Webhook.**
* Using **Terraform** to automate and maintain **infrastructure** deployment to the staging/qa/production environments.
* Deep experience in managing and maintaining large scale AWS Multi-Account (1000+ VMs) environment. Writing and building CI/CD tool **Jenkins**.
* Automates and streamlines the process of building, testing, and deploying using **OpenShift**.
* Kubernetes, Docker, Jenkins, Azure and Azure DevOps Bitbucket, Container Registry, Ansible (AKS), Sonar Cloud, Istio Service Mesh, Canary Deployment, Blue/Green Deployment, Ingress, Helm, JIRA and Agile.
* Kubernetes Cluster upgrade**, AKS** and **EKS** using Terraform.
* **Excellent Kubernetes troubleshooting** skills.
* **Python scripting.**

**Total** **Work Experience (Around 10+ Years)**

* Project Lead in Persistent System April 2023 to 26th July 2024
* DevOps Lead in SUMA SOFT PVT LTD Aug 2022 to March 2023
* Sr DevOps Engineer in Huawei Technology Oct 2019 to Feb 2022
* DevOps Engineer in Tech Mahindra from Dec 2018 to Oct 2019.
* DevOps Engineer in Reliance Jio Info COMM Dec 2014 to Aug 2018
* System Engineer in Wipro InfoTech 21st Dec 2012 to 21st Oct 2013.

**Education:**

* **B.E (CSE) from Gogte Institute of Technology, Belgaum, VTU University, in July 2012.**
* 10+2 from Bihar Board
* 10th from Bihar Board

**Project Experiences**

**Project-1**

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| **Organization Name** | **Persistent System** |
| **Client** | **Atradius** |
| **PROJECT** | **Atradius** |
| **Role** | **Project Lead** |
| **Duration** | **April 2023 to 26th July 2024** |
| **Environment** | LLM, setting up a platform of open-source models like Llama 2, Mistral  CUDA, Kubernetes, Pytorch, TenserFlow  Load balancing, Model as a service, LLMOps, MLOps  A100, A5000, RTX are types of GPU,Azure Portal, Azure DevOps, Linux, Azure Repo, Azure Kubernetes Service (AKS), Docker, Azure Container Registry, Terraform, creating infrastructure on AZURE Using Terraform. Python scripting, Azure. |

**Roles and Responsibilities:**

* Designed and implemented AWS cloud and Azure cloud infrastructure for various projects including EC2 instances, VPC, security groups, IAM roles, and S3 buckets, RDS, DynamoDB etc.
* Designed and implemented Azure cloud infrastructure for various projects including Virtual Machine, Storage Account, AKS, databases, Virtual network, NSG, Load Balancers, Azure AD, Azure data factory, Resource Manager, Logic Apps etc.
* **Git**, Git pull, Git Push, git fetch, Git rebase, Git checkout, git Cherry pick, git merge, git conflict, **git stashing, git reset, git branching, Webhook.**
* Deep experience in managing and maintaining large scale AWS Multi-Account (1000+ VMs) environment. Writing and building CI/CD tool **Jenkins**.
* Utilized AWS QuickSight and Cost Explorer to monitor and analyze costs, identify inefficiencies, and follow best practices to optimize AWS infrastructure cost.
* Deployed and managed AWS EKS clusters for high-availability production workloads, with a focus on automation, security, and scalability.
* Building the Infrastructure Using **Terraform**.
* Creating the resources and deploy using the **Terraform**.
* Using Terraform to automate and maintain infrastructure deployment to the staging/qa/production environments.
* Designed and implemented Kubernetes-based microservices architecture, utilizing AWS EKS, Helm
* Managed and maintained Kubernetes cluster infrastructure, including deployment, scaling, and upgrading applications, using tools such as kubectl, Helm.
* Using Ansible for application configuration and management.
* Implement CI/CD using Jenkins to automate and improve development and release processes, effective monitoring and alerting using Grafana and Prometheus.
* Managing GitHub Repositories and users access management
* Creating Azure Private Kubernetes Clusters and Private ACR Registry.
* Exploring and POCs of new devOps tool to improve efficiency and visibility. Designing the Solutions for the ongoing engagements.
* Excellent experience in Azure and AWS cost analysis and optimization.
* Python scripting

**Project 2: Digital Banking**

**Machine Learning (MLOPS) and Artificial Intelligence (AI) and Prompt Engineering:**

**Roles and Responsibilities:**

* Responsible for natural language processing tasks in the project.
* Generates and understands human-like language for various applications.
* Developing and fine-tuning language models.
* Implementing Llama 2 and Mistral models within the project's architecture.
* Ensuring the language models align with project objectives and requirements.
* Enabling efficient and scalable computing infrastructure for machine learning workloads.
* Implementing CUDA for GPU-accelerated computation in machine learning tasks.
* Deploying and managing machine learning models using Kubernetes for orchestration.
* Utilizing PyTorch and TensorFlow for model development and training.
* Ensuring efficient and reliable deployment and operation of machine learning models.
* Responsibilities:
* Implementing load balancing to distribute inference requests among multiple servers or instances.
* Deploying models as services using the Model as a Service (MaaS) approach.
* Managing Language Model Operations (LLMOps) for language models' day-to-day operations.
* Implementing MLOps practices for end-to-end machine learning lifecycle management.
* Accelerating computational tasks, especially in the context of graphics rendering and machine learning.
* Responsibilities:
* Integrating and utilizing A100, A5000, RTX GPUs for specific tasks within the project.
* Ensuring compatibility and optimization of machine learning models for the selected GPU architecture.
* Collaborate with the research team to develop and optimize large language models (LLM) for natural language processing tasks.
* Develop and optimize ChatGPT/OpenAI/Text Generative models for conversational AI systems.
* Utilize prompt/instruction tuning techniques to improve the performance of LLMs.
* Utilize one-shot/few-shot learning techniques to enhance the capabilities of LLMs.
* Conduct LLM literature analysis to stay up-to-date with the latest advancements in the field.
* Develop and maintain code for LLM development and optimization using intermediate-level Python programming.
* Attention to detail and ability to troubleshoot and debug code.

**Cloud Security Management:**

* Managing Azure cloud security.
* Handling Microsoft defender recommendation, preparing Microsoft defender policy in Bicep and deploying it on management group/Subscription level.
* Deploying Azure policy through azure portal.
* Deploying Azure policy through Azure DevOps pipeline.
* **Implement security scanning tools and practices such as SAST and DAST to identify vulnerability in the pipeline configuration.**
* Tracking All the resource.

**Project-3**

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| **Organization Name** | **SUMA SOFT PVT LTD** |
| **Client** | **75F** |
| **PROJECT** | **75F** |
| **Role** | **DevOps Lead** |
| **Duration** | **March 2022 to 31St March 2023** |
| **Environment** | Azure DevOps, Linux, Azure Repo, Azure Kubernetes Service (AKS), Docker, Azure Container Registry, Terraform, Jenkins, CI/CD Pipeline, Ansible, Nexus Artifactory, JFrog Artifactory. Sonar Cloud Integration with azure DevOps, and migration on azure DevOps, Creating and setup AKS on azure and deployment of AKS, creating infrastructure on AZURE Using Terraform. Python scripting, Azure and AWS CLOUD |

**Roles and Responsibilities:**

* Designed and implemented AWS cloud and Azure cloud infrastructure for various projects including EC2 instances, VPC, security groups, IAM roles, and S3 buckets, RDS, DynamoDB etc.
* Designed and implemented Azure cloud infrastructure for various projects including Virtual Machine, Storage Account, AKS, databases, Virtual network, NSG, Load Balancers, Azure AD, Azure data factory, Resource Manager, Logic Apps etc.
* **Git**, Git pull, Git Push, git fetch, Git rebase, Git checkout, git Cherry pick, git merge, git conflict, **git stashing, git reset, git branching, Webhook.**
* Deep experience in managing and maintaining large scale AWS Multi-Account (1000+ VMs) environment. Writing and building CI/CD tool **Jenkins**.
* Utilized AWS QuickSight and Cost Explorer to monitor and analyze costs, identify inefficiencies, and follow best practices to optimize AWS infrastructure cost.
* Deployed and managed AWS EKS clusters for high-availability production workloads, with a focus on automation, security, and scalability.
* Building the Infrastructure Using **Terraform**.
* Creating the resources and deploy using the **Terraform**.
* Using Terraform to automate and maintain infrastructure deployment to the staging/qa/production environments.
* Designed and implemented Kubernetes-based microservices architecture, utilizing AWS EKS, Helm
* Managed and maintained Kubernetes cluster infrastructure, including deployment, scaling, and upgrading applications, using tools such as kubectl, Helm.
* Using Ansible for application configuration and management.
* Implement CI/CD using Jenkins to automate and improve development and release processes, effective monitoring and alerting using Grafana and Prometheus.
* Managing GitHub Repositories and users access management
* Creating Azure Private Kubernetes Clusters and Private ACR Registry.
* Exploring and POCs of new devOps tool to improve efficiency and visibility. Designing the Solutions for the ongoing engagements.
* Excellent experience in Azure and AWS cost analysis and optimization.
* Python scripting

**Project-4**

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| **Organization Name** | **Huawei Technology** |
| **Client** | Saudi Mobily |
| **PROJECT** | Biointellisense |
| **Role** | Sr DevOps Engineer |
| **Duration** | Oct 2019 to 25th Feb 2022 |
| **Environment** | Azure DevOps, Linux, Azure Repo, Azure Kubernetes 1.23, Docker, Azure Container Registry, Terraform, Jenkins, CI/CD Pipeline, Ansible, Nexus Artifactory, JFrog Artifactory. Python scripting, Azure and AWS CLOUD |

**Roles and Responsibilities:**

* Designed and implemented AWS cloud and Azure cloud infrastructure for various projects including EC2 instances, VPC, security groups, IAM roles, and S3 buckets, RDS, DynamoDB etc.
* Designed and implemented Azure cloud infrastructure for various projects including Virtual Machine, Storage Account, AKS, databases, Virtual network, NSG, Load Balancers, Azure AD, Azure data factory, Resource Manager, Logic Apps etc.
* **Git**, Git pull, Git Push, git fetch, Git rebase, Git checkout, git Cherry pick, git merge, git conflict, **git stashing, git reset, git branching, Webhook.**
* Deep experience in managing and maintaining large scale AWS Multi-Account (1000+ VMs) environment. Writing and building CI/CD tool **Jenkins**.
* Utilized AWS QuickSight and Cost Explorer to monitor and analyze costs, identify inefficiencies, and follow best practices to optimize AWS infrastructure cost.
* Deployed and managed AWS EKS clusters for high-availability production workloads, with a focus on automation, security, and scalability.
* Building the Infrastructure Using **Terraform**.
* Creating the resources and deploy using the **Terraform**.
* Using Terraform to automate and maintain infrastructure deployment to the staging/qa/production environments.
* Designed and implemented Kubernetes-based microservices architecture, utilizing AWS EKS, Helm
* Managed and maintained Kubernetes cluster infrastructure, including deployment, scaling, and upgrading applications, using tools such as kubectl, Helm.
* Using Ansible for application configuration and management.
* Implement CI/CD using Jenkins to automate and improve development and release processes, effective monitoring and alerting using Grafana and Prometheus.
* Managing GitHub Repositories and users access management
* Creating Azure Private Kubernetes Clusters and Private ACR Registry.
* Exploring and POCs of new devOps tool to improve efficiency and visibility. Designing the Solutions for the ongoing engagements.
* Excellent experience in Azure and AWS cost analysis and optimization.
* Python scripting

**Project-5**

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| **Organization Name** | **Tech Mahindra.** |
| **Client** | CNSDP (Cloud Native Service Delivery Platform) |
| **Role** | DevOps Engineer. |
| **Duration** | Sep 2018 to Oct 2019. |
| **Environment** | Azure DevOps, Linux, Azure Repo, Azure Kubernetes 1.23, Docker, Azure Container Registry, Terraform, Jenkins, CI/CD Pipeline, Ansible, , Nexus Artifactory, JFrog Artifactory. Python scripting, Azure and AWS CLOUD |

**Roles and Responsibilities:**

* Specialize in managing multi-cloud infrastructure across AWS and Azure platforms
* Deploy, automate, maintain, and manage AWS cloud-based production systems to ensure optimal performance, scalability, and security
* Designed and implemented Azure cloud infrastructure for various projects including Virtual Machine, Storage Account, AKS, databases, Virtual network, NSG, Load Balancers, Azure AD, Azure data factory, Resource Manager, Logic Apps etc.
* Troubleshoot complex problems across different platforms and application domains
* Automate CI/CD pipelines using Jenkins, ensuring job execution modes and implementing security measures
* Good understanding of code quality tools such as SonarQube and have integrated them with CI (Jenkins)
* Configure and manage Apache Tomcat, Spring Boot, and Angular applications ▪ Passionate about mentoring and supporting development teams in automating their build and deployment tasks ▪ Collaborate and communicate effectively with the info-sec team to perform auditing and security analysis
* Continuously evaluate new technology options and vendor products to ensure systems remain up-to-date and secure
* Kafka, Apache Kafka.
* Python scripting.
* Azure Cloud, AWS Cloud.

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| **Project-6**   |  |  | | --- | --- | | **Organization Name** | **Reliance Jio Info COMM** | | **Project** | **MTN Global connect**, Reliance 4G | | **Role** | DevOps Engineer | | **Duration** | Dec 2014 to 31st Aug 2018 | | **Environment** | Azure DevOps, Linux, Azure Repo, Azure Kubernetes 1.23, Docker, Azure Container Registry, Terraform, Jenkins, CI/CD Pipeline, Ansible, , Nexus Artifactory, JFrog Artifactory. Python scripting, Azure and AWS CLOUD |   **Roles and Responsibilities:**   * Set up CI/CD pipelines using available tools like Jenkins enabling seamless build and deployment using Python. * Integrated CI tools with different communication mediums like mail and Slack for effective notifications. * Strong experience in deploying and managing applications on Docker/Docker-compose and Kubernetes. Provisioned, deployed, and managed K8S clusters in on-premises and Azure and AWS cloud platforms. * Automated provisioning and deprovisioning of multi-cloud infrastructure using Terraform and application configuration using Ansible. * Expertise in automating manual tasks with python scripting and integrating them with Jenkins. * Proactively maintained and monitored AWS, Azure infrastructure environments, ensuring 24/7 availability.   **Roles and Responsibilities Networking Firewall:**   * Managing almost data centres, **ASA Firewall, taking care F5 Load Balancer and Palo Alto Firewall**, related issue, Configuration and troubleshooting related issues, Configuration and troubleshooting of VPN, Experience on Palo Alto Firewall * Configuration and troubleshooting, Nexus 9k, 7K, ACL troubleshooting. * IP networking IP/MPLS Network Testing planning & implementation for LTE (4G), WI-FI technologies in ISP environment & Telecommunications. * Experience in Design Network Architecture Design on Visio, configuration, commissioning and troubleshooting of CISCO ASR 901,920 ,903, 9010, 9912,9922, 3925, 3850 routers, also L3 switches. * Planning, Implementation, Operations and maintenance of IP/MPLS network for LTE (4G) Networks. * Acting as an IP Planning Engineer for RJIL 4G IP/MPLS network implementation * Conducting different stages of newly implemented Cisco Core routers, L3 Switches like ASR 9922, ASR 9010, ASR 903, ASR 901,920,1006,3925,3850. * Provide Proposal: Proposal is provided to fulfil the customer requirement which includes LLD and HLD (High Level   Design), etc.   * Prepare implementation plan to achieve the solution.   **Project-7**   |  |  | | --- | --- | | **Organization Name** | Wipro InfoTech | | **Project** | Handling Wipro Internal Network | | **Role** | Lan/WAN Engineer. | | **Duration** | 21st Dec 2012 to 21st Oct 2013 | | **Environment** | LAN, Wan, cisco routers & switches, Vlan, VTP, STP, Ether channel, inter-vlan routing etc. |   **Roles and Responsibilities:**  Wipro Internal L1 Network support Engineer.   * Project: Taking care LAN/WAN related issues, working as a NOC environment, resolving Network issues, internet speed slowness issue. Bandwidth related issue, working on the NOC environment where I have implemented new switches and routers, also keep monitoring bandwidth utilization, resolving port related issues. * Configured and Implemented small LAN/WAN projects. * Racking and stacking of cisco routers & switches. * Vlan, VTP, STP, Ether channel, inter-vlan routing etc. * Static Route, default route, ACL, Prefix-list, subnetting, VLSM, Ip addressing. * Traffic filtering using access-lists, route-map etc. to avoid unwanted traffic. * Working experience on Cisco high end device such as ASR. * LAN setup for more than 700 users. * Different VLANS for MPLS and INTERNET users. * Configured Access-list to allow particular hosts to access servers. * MPLS Link should be used only to access servers on remote location. * Configuration/Installation/troubleshooting of Cisco 3900 series router and 2960, 3750 switches.   **CERTIFICATIONS**   * Cyber Security Certified * Information Security Certified * Cisco Certified Network Associate (CCNA) andCCNA Wireless   **PERSONAL INFORMATION**   * Nationality : Indian. * Present Address : Electronic City, Bangalore. * Passport : Yes (Will be provided on demand) * Language Known : English, Hindi, Urdu, Arabic (Read, Write, Speak) |
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| **DECLARATION** |

I hereby declare that the above-mentioned information is correct up to my knowledge and I hear the responsibility for the correctness of the above-mentioned particulars.

Date : 31-07-2024

Place : Bangalore **(**Md Azhar Uddin**)**

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