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AWScompetencies encompass a range of tools and technologies including Jenkins, Docker, Kubernetes, Ansible, Terraform, and Python. I leverage these capabilities to foster collaboration, minimize errors, and enhance performance and scalability to execute software delivery solutions for clients spanning diverse domains.

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| Professional Summary |

* Experienced in all phases of the Software Development Life-Cycle (SDLC) with specific focus on the build and release of quality software. Experienced in Waterfall, Agile/Scrum, and most recently Continuous Integration (CI) and Continuous Deployment (CD) practices.
* Proficient in provisioning Linux Servers in cloud environments and setting security groups.
* Experienced in version control using GitHub, including Branching, Merging, Tagging, and maintaining version control.
* Expertise in Maven build tool for creating deployable artifacts such as JAR, WAR & EAR from source code.
* Extensive work with Jenkins, including installation, configuration, and maintenance for CI, and for automation of builds and deployments.
* Experience in implementing Continuous Delivery pipelines.
* Hands-on experience with Docker for container management and lifecycle.
* Proficient in Configuration Management using Ansible and creating playbooks.
* Extensive experience with AWS services including EC2, S3, EBS, IAM, RDS, VPC, Auto Scaling, and managing IAM resources.
* Extensive experience in designing, developing, and maintaining AWS infrastructure using CDK constructs, which allows you to define cloud resources using familiar programming languages such as TypeScript, Python, or Java.
* Expertise in Design, develop, and maintain AWS CloudFormation templates to provision and manage AWS infrastructure resources declaratively.
* Experience with Azure infrastructure, including Virtual Machines, Storage Accounts, Resource Groups, and Key Vault for sensitive information storage.
* Experience designing and deploying Kubernetes clusters for container orchestration, using Terraform for provisioning and Ansible for maintenance.
* Utilize CDK libraries and modules to simplify the integration of AWS services and implement complex infrastructure architectures.
* Experienced in container orchestration using Azure Kubernetes Service (AKS) for deploying, managing, and scaling containerized applications on Azure.
* Document ARM templates, parameter configurations, and deployment processes to facilitate knowledge sharing and collaboration among team members.
* Define resource dependencies, parameters, variables, and outputs in ARM templates to facilitate parameterization and dynamic resource allocation.
* Experience in setting up CI/CD pipelines using Jenkins, Maven, GitHub, and Terraform.
* Integrated ArgoCD with continuous integration (CI) and continuous delivery (CD) pipelines to automate the deployment process.
* Created Helm charts that encapsulate Kubernetes manifests and configurations for deploying applications.
* Expertise in writing Jenkins files for building and pushing Docker images, and deployment to production.
* Participated in the release cycle of products across various environments including Development QA, UAT, and Production.
* Ability to work both independently and as part of a team, with a quick ability to master new technologies.
* Hands-on expertise in delivering the projects in Agile and DevOps life cycles.

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| Technical Skills |

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| Provision/Configuration | Terraform enterprise, Ansible. |
| Web/ Application Server | Tomcat, Apache DB2. |
| Azure Services | AAD, ADO, ASE, APIM, AKS, App services, App gateway, Virtual machines, storage account, Key vault, ACS, Azure SQL, EventHub, Service Bus, ASP, Logic Apps, Azure Monitor. |
| AWS services | EC2, VPC, RDS, IAM, S3, AWS CLI, CloudWatch, CloudTrail, EBS. |
| Databases | My SQL, Oracle, SQL Server. |
| Scripting Languages: | Shell scripting, Python, YAML, Bash. |
| Versioning Tools: | GIT, GITHUB, GITLAB. |
| Build Tools/ CI & CD Tools | Jenkins, Docker, Git, Maven, Helm. |
| Server | Apache Tomcat, Web logic. |
| Bug Tracking Tools | JIRA. |
| Container Management | Kubernetes, Docker. |
| Cloud Technologies | AWS, Azure, GCP (Learning experience). |
| Monitoring Tools | Azure Monitor, Prometheus, Grafana. |

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| Project Experience |

**Project #1**

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| **Client**: | Dover/Datanormus INC, Chicago, IL Jan 2024 – Present |
| **Role**: | DevOps Engineer |

**Responsibilities:**

* Implemented and managed CI/CD pipelines using Jenkins to automate the software delivery process.
* Configured Jenkins jobs to build, test, and deploy applications automatically upon code commits.
* Orchestrated the deployment, scaling, and management of Docker containers using Kubernetes.
* Utilized Docker for container-based deployment, managing Docker images, and interacting with Docker Hub and Docker registries, along with Kubernetes.
* Monitor and troubleshoot CI/CD pipelines to ensure smooth and efficient operation.
* Implemented AWS solutions involving EC2, S3, RDS, EBS, Elastic Load Balancer, and Auto Scaling groups.
* Deployed content on Amazon Web Services (AWS) utilizing EC2 and S3, including the creation and management of S3 buckets, and utilizing S3 bucket and Glacier for storage and backup.
* Managed version control of CloudFormation templates using source code repositories such as Git, GitHub, or AWS Code Commit to track changes and collaborate with team members.
* Configured GitLab CI YAML files for deployment automation, facilitating the continuous integration and delivery process.
* Automated the deployment of AWS infrastructure using CDK applications in conjunction with CI/CD pipelines, such as AWS Code Pipeline, Jenkins, or GitLab CI/CD.
* Integrated CDK applications with CI/CD pipelines to automate the continuous deployment of infrastructure changes alongside application code.
* Automated the deployment of AWS resources using CloudFormation stacks to ensure consistent and repeatable provisioning of infrastructure.
* Implemented security best practices and compliance standards in CloudFormation templates to ensure secure and compliant AWS infrastructure deployments.
* Configured AWS Identity and Access Management (IAM) policies, network security settings, encryption options, and auditing mechanisms using CDK constructs.
* Maintained highly scalable and fault-tolerant multi-tier AWS and Azure environments across multiple availability zones using Terraform.
* set up and configure ArgoCD within the organization's infrastructure. This involves installing ArgoCD, configuring repositories, defining applications, and managing access controls.
* Utilized Maven as a build tool for generating deployable artifacts from source code.
* Configured Jenkins jobs to execute automated tests (unit tests, integration tests, etc.) as part of the CI/CD pipeline.
* Deployed Kubernetes resources such as pods, deployments, services, configmaps, and secrets within specific namespaces.
* Created Helm charts that encapsulate Kubernetes manifests and configurations for deploying applications.
* Implemented code quality checks and static code analysis tools like SonarQube and Trivy within Jenkins to enforce coding standards and identify issues early in the development process.
* Implemented blue-green deployments, canary releases, or rolling updates through Jenkins pipelines to minimize downtime and risk during deployments.
* Maintained documentation for Jenkins configurations, pipeline definitions, and best practices to facilitate knowledge sharing and onboarding of team members.
* Integrated Helm charts into CI/CD pipelines to automate the deployment of Kubernetes applications.
* Configured Prometheus to collect and store metrics from various sources such as applications, servers, and databases.
* Set up Grafana dashboards to visualize Prometheus metrics and create meaningful charts, graphs, and alerts.
* Monitor system health, performance, and availability using Grafana and Prometheus, and proactively address issues to maintain service reliability.

**Environment**: AWS Cloud, Terraform, Kubernetes, Maven, Jenkins, GIT, Linux, Prometheus, Grafana, Windows.

**Project #2**

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| **Client**: | Wabtec/TCS, Hyderabad Jun 2021 – Dec 2023 |
| **Role**: | DevOps Engineer |

**Responsibilities:**

* Managed applications in containerized environments using Kubernetes. Handled pod scheduling, resource issues, and networking bottlenecks to enhance stability.
* Proficiently used AWS services like EKS, IAM, EC2, and CloudFront. Ensured smooth cloud operations, troubleshooting connectivity, latency, and security issues.
* Automated configuration management with Ansible, reducing manual effort. Troubleshooting playbook failures, enhancing deployment reliability.
* Managed source code with Git, GitLab, and GitHub. Resolved merge conflicts, branch issues, and permissions for organized development.
* Utilized Terraform to define and deploy infrastructure as code. Addressed resource provisioning discrepancies and maintained consistent infrastructure states.
* Created shell scripts for tasks like backups and environment setup. Troubleshoot script failures and performance bottlenecks for streamlined automation.
* Integrated Docker into CI/CD pipelines to automate the build, test, and deployment of containerized applications.
* Triggered CloudFormation stack updates or deployments based on code commits, build artifacts, or manual approvals in CI/CD workflows.
* Configured CI/CD tools like Jenkins, GitLab CI/CD, or CircleCI to support Docker workflows.
* Used Python scripts for data manipulation and automation. Addressed script errors and compatibility concerns for reliable solutions.
* Configured IAM policies, security groups, encryption settings, and auditing controls using CloudFormation resources and properties.
* Monitor stack events and resource status using AWS CloudFormation console, CLI, or SDKs to track stack provisioning and identify issues or errors.
* Implemented AWS IAM security measures, ensuring least privilege access. Troubleshoot permission mismatches and security vulnerabilities.
* Having hands on experience setting up Kubernetes (k8s) clusters, create clusters and manage the clusters using Kubernetes(k8s).
* Experience in implementing Azure services such as Azure Active Directory (AD), Azure storage, Azure cloud services, IIS, Azure Resource Manager (ARM), Azure Blob storage, Azure VM, SQL Database, Azure functions, Azure Service fabric and Azure service Bus.
* Automated the deployment of Azure infrastructure resources using ARM templates in conjunction with Azure DevOps pipelines, PowerShell scripts, or Azure CLI commands.
* Implemented Infrastructure as Code (IaC) practices by using ARM templates to automate the deployment and management of Azure resources.
* Integrated ARM templates with Azure DevOps pipelines or other CI/CD tools to automate the continuous deployment of infrastructure changes alongside application code.
* Experience in using Azure ARM templates (JSON) to create Azure services, while assuring no changes to existing infrastructure.
* Managed the lifecycle of ARM deployments, including creation, update, deletion, and rollback operations, to maintain the desired state of Azure infrastructure.
* Structured cluster Auto scaler for Azure Kubernetes Service (AKS) by using Terraform and worked with scheduling, deploying and managing pods and replicas in AKS.
* Used MAVEN as a build tool on java projects for the development of build artifacts on the source code.

**Environment:** AWS Cloud, Azure Cloud, Terraform, Kubernetes, Ansible, Maven, Azure DevOps, Jenkins, Docker, GIT, JIRA, Linux, Windows.

**Project #3**

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| **Client**: | AXA Assistance - AXA Liberty/Capgemini, Hyderabad Feb 2017 – May 2021 |
| **Role**: | DevOps Engineer |

**Responsibilities**:

* Responsible for daily builds/deployments from Integration environment through staging environment.
* Worked in source code management, branch creation and repositories management using Git and GitHub.
* Integrate GIT into Jenkins to automate the code checkout process and trigger builds.
* Responsible for User Management, Plugin Management and End-to-End automation of Build and Deployment process using Jenkins.
* Responsible for CI/CD process implementation with Jenkins using shell scripts.
* Creating Docker images embedded with applications with its hardware and software dependency.
* Involved in container management using Docker by writing Docker files and setting up the automated build on Docker HUB, installed and configured Kubernetes.
* Using Kubernetes, managing containerized applications using its nodes, Selector, Config Maps, Services and deployed application containers as Pods.
* Worked with Docker and Kubernetes on ECS and EKS cloud provider, for building and containerizing the application to deploy.
* Used Ansible to manage all existing servers and automate the build/configuration of new servers.
* Updating changes and deploying applications in deployment servers by using Ansible Configuration Management tool by using Ansible YAML script.
* Built AWS infrastructure using various resources like VPC, EC2, S3, IAM, ECS, EBS, Security Groups, Auto Scaling.
* Understand the latest features like (Azure DevOps, OMS, NSG Rules, etc..,) introduced by Microsoft Azure and utilized it for existing business applications.
* Creating, validating and reviewing solutions and effort estimate of converting existing workloads from classic to ARM based Azure Cloud Environment.
* Developed automation system using PowerShell scripts and JSON templates to remediate the Azure services.

**Environment**: AWS Cloud, Azure Cloud, Terraform, Kubernetes, Ansible, Maven, Azure DevOps, Jenkins, Docker, GIT, JIRA, Linux, Windows.

**Project #4**

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| **Client**: | BNP Paribas/Capgemini, Hyderabad Mar 2013 – Jan 2017 |
| **Role**: | Jr DevOps Engineer |

**Responsibilities:**

* Worked on installation, configuration and maintenance the Web servers, Salt Stack, Cloud deployment.
* Installation, Configuration and administration of VMware.
* Deploy and monitor scalable infrastructure on Amazon web services (AWS) & configuration management using puppet.
* Worked on Source code repositories Chef, GIT, Ansible.
* Designed Puppet Modules to manage configurations and automate the installation process.
* Experience working with production servers at multiple data centers.
* Worked on Physical to Cloud Migration in AWS.
* Hands-on experience in AWS provisioning and good Experience of AWS services like EC2, S3, ELB, RDS, SQS, EBS etc.
* Experience in migration of consumer data from one production server to another production server over the network with the help of Bash scripting.
* Expertise in the deployment of entire Application Stack of AWS with Cloud Formation.
* Experience with continuous integration tools like Jenkins.
* Developed and supported the Red Hat Enterprise Redhat Linux-based infrastructure in the cloud environment.
* Developed automation scripting in Python using Puppet to deploy and Redhat Linux servers and windows Servers.
* Troubleshooting migration and environment issues.
* Installed Fuse to mount the keys on every Debian Production Server for password-less authentication.

**Environment**: AWS Cloud, Puppet, Ansible, Maven, Jenkins, Docker, GIT, JIRA, Linux, Windows.

**Project #5**

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| **Client**: | HCSC/Capgemini, Hyderabad Dec 2011 – Feb 2013 |
| **Role**: | Build and Release Engineer |

**Responsibilities**:

* Integrated GIT and Jenkins to automate the code check-out process.
* Developed Bid and deployment scripts using Maven and ANT as build tools in Jenkins to move from one environment to other environments.
* Responsible for setting up Cronjob scripts on Production server.
* Installed and Configured Jenkins plugins to support the Project specific tasks.
* Kept track of all releases and request the developers through Infrastructure management tool.
* Implemented, maintained and supported reliable, timely and reproducible builds for project teams.
* Worked with development team to migrate ANT scripts to MAVEN.
* Developed webservices in python using XML and JSON.
* Worked with development/testing, deployment, systems/infrastructure and project teams to ensure continuous operation of build and test systems on Agile methodology.

**Environment**: Maven, Jenkins, Linux, Python, Shell Scripting.

**Project #6**

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| **Client**: | Assurant Health/Capgemini, Hyderabad Jan 2011 – Nov 2011 |
| **Role**: | Software Engineer |

**Responsibilities**:

* Testing full product suites, identifying problems & resolving them with the development team.
* Identified end-to-end test cases for each entity from a functional perspective.
* Involved in Test data identification and mock up data preparation.
* Documented test cases and performed peer reviews on the team member’s work.
* Responsible for execution of test cases in test environment.
* Responsible for loading real time data in the production environment.
* Responsible for maintaining Data and Defects logs.
* Prepared and sent daily reports – test execution report and defect report.
* Coordinating with the overseas team and reporting the testing activities on a daily basis.

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| Work Experience |

* Working as DevOps engineer in Datanormus, USA from Jan 2024 to till date.
* Worked as Assistant Consultant in Tata Consultancy Services (TCS), Hyderabad from Jun 2021 to Dec 2023.
* Worked as Consultant in Capgemini India Pvt Ltd, Hyderabad from Jan 2011 to May 2021.

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| Education |

* MBA from Osmania University in 2007, Hyderabad India.
* B.Sc. Computers from Andhra University in 2004, Kakinada India.