Kavya G M

#### Azure DevOps Engineer

Website: <https://kavyagoudam.github.io>

Summary

* Experienced Devops Engineer with a demonstrated history of working in the computer software industry. Skilled in Python (Programming Language), Concourse, Jenkins, and Ansible. Terraform. Kubernetes and Docker. Skilled in AWS and Azure. Results-driven Kubernetes Administrator experience in designing, deploying, and managing Kubernetes clusters. Proficient in containerization with Docker and skilled in automating CI/CD pipelines for seamless application deployment. Proven ability in optimizing Kubernetes environments for performance and cost-efficiency.

Knowledge

* **Technologies**: Azure Cloud, Azure DevOps, Git, GitHub Terraform, AWS, Docker, Kubernetes, AKS, Python
* **Functional Expertise**: Azure DevOps, Azure Cloud, Git, GitHub, Terraform, Kubernetes
* **Industry Expertise**: Azure DevOps, Azure Cloud, Git, GitHub Actions, Kubernetes Administrating Developers

Experience

* **Company**            : **Tata Consultancy services Ltd**.

**Duration** : January 2017 to 2020.

**Client** : SAP Labs India Pvt Ltd.

* **Company**            : **Incture technologies**.

**Duration** : April 2020 to August 2021.

**Client** : SAP Labs India Pvt Ltd.

* **Company**            : **Hitachi Vantara**.

**Duration** : September 2021 to till date.

**Client** : Managed services, JSSI, GenAI

Prior Work History

##### **Company:** **Tata Consultancy Service Jan 2017 to Jan 2020**

**Designation: Software Engineer**

**Project: Managed Cloud Delivery**

**Responsibilities:**

* Having Strong Knowledge of RHEL Linux.
* Transformed data between Server to storage devices
* Strong Experience automated build platforms/continuous integration using DevOps architecture.
* Created logical volumes and increased the file system in Linux servers.
* Visualize and report on operational events using Ansible.
* Automated build and release processes using Jenkins, decreasing deployment errors by 70%
* Maintaining and Monitoring the Application/Servers using Nagios.
* Created AWS resources like AMI images, ELB, RDS, VPC,
* Effective Cost Calculation using AWS Calculator.

##### **Company: Incture Technologies April 2020 to August 2021**

**Designation:**  cloud engineer

**Project: Apigee**

**Responsibilities:**

* Worked on multiple cloud like, AWS, Azure, Hypervisor
* Handled cloud administration tools and management frameworks like Terraform.
* Created support case with AWS for any critical issues and follow-up.
* Configured Cloud watch alerts.
* Creating of Organization, Environment, and users in Ansible server.
* Backup & Restoration.
* Designing and implementing fully automated server build, management, monitoring, and deployment solutions spanning multiple platforms, tools and technologies including Jenkins Nodes/Agents, SSH, Amazon EC2 and packaging, deployment, and testing.

**Hitachi Vantara Experience**

##### **Company:** **Hitachi Vantara Sept 2021 to Present**

**Designation: Consultant - 2**

**Project 1: Managed services**

**Responsibilities:**

* Worked on AWS resource automation to trigger alerts client account using, Lambda, API gateway, Cloud watch, SNS, DynamoDB,
* Created Cloud Formation Template for automation like adding tags, terminating resources.
* Creating repositories, new users for GIT and give permission to users to access repository.
* Create branches and merge the Branches for Integration.
* Jenkin Setup and configuration using EC2 instance.
* Backup and restore of snapshots, volumes, EC2 disks.
* Creating/Configuring Application Load balancer and Auto scaling group
* Developing utility scripts to effectively reduce the time and manual effort.
* Writing python script for automation via lambda for triggering alerts
* Cross account configuration

##### **Designation: Consultant - 2**

**Project 2: JSSI**

**Responsibilities:**

* Write terraform code for infrastructure development.
* Extensive experience on Hub -spoke architecture deployment.
* Experience on Azure Devops, repos, and CI/CD deployments.
* Configuration and troubleshooting of resources like, Front Door, APP gateway, Firewall, APIM, private DNS zone, AKS, ACR service bus, event bus, Key vault.
* Work on escalated tasks related to interconnectivity issues and complex cloud-based identity management and user authentication, service interruptions with Virtual Machines (their host nodes) and associated virtual storage (Blobs, Tables, Queues).
* Configured PAAS services like App service, App service plan.
* Setup Azure Virtual Appliances (VMs) to meet security requirements as software-based appliance functions (firewall, WAN optimization and intrusion detections).
* Kubernetes: Cluster setup, resource management, Persistent volume and monitoring.
* Containerization: Docker, container orchestration.
* Deployed and managed Kubernetes clusters on Azure, overseeing all aspects of cluster health and resource management.
* Configured and maintained Kubernetes resources, including Pods, Services, and ConfigMaps.
* Automated cluster provisioning and application deployment processes, reducing deployment time by 30%.
* Implemented monitoring and alerting solutions using Prometheus, resulting in improved cluster stability.
* Resolved critical cluster issues through in-depth troubleshooting, minimizing downtime to less than 1%.
* Enhanced security by implementing RBAC and regularly conducting security audits.
* Implemented service mesh - Istio on AKS cluster.
* Sonar Cloud configuration in release pipeline (Azure Devops) to check code quality.

##### **Designation: Consultant - 2**

**Project 3: GenAI**

**Responsibilities:**

* Worked on providing Reliability and Resilience in Hitachi GenAI initiative
* Implemented Docker and Kubernetes for containerization, reducing server provisioning time from 2 hours to 15 minutes
* Configured ELK stack for log management, improving issue detection and resolution time by 35%
* Implemented ArgoCD for declarative GitOps workflows, reducing deployment times by 50%

Education and Certifications

* Graduation:  BCA Bapuji institute of higher education (BIHE). Davanagere- 70%.
* AWS Certified Solutions Architect – Associate- AWS01270336