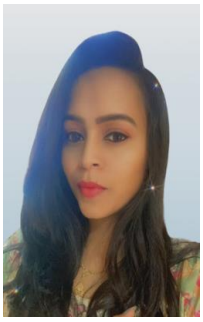
Curriculum Vitae

Likhitha M. S

DevOps Engineer with 4+ years of experience in handling the complete end to end automated DevOps process using multiple tools and technologies like **Shell Scripting, Git, GitHub, Jenkins, AWS DevOps, Terraform, Docker, Kubernetes, Cloud Technologies (AWS)**.

Strengths – Honesty, Ownership, Quick Learner,



Overall Experience
Roles and responsibilities
I have been involved in various engagements in AWS DevOps mainly working on below mentioned activities:

- ➔ Implementing and handling the **automated process** of **DevOps** and Integration of the same with **Cloud** as per different Business Requirements.
- ➔ Managed GitHub repositories and permissions, including branching and tagging.
- ➔ Implemented infrastructure as code using Git, CI/CD pipelines, Ansible, and Terraform, reducing manual configuration efforts by 70%.
- ➔ Having knowledge in encryption mechanisms and key management strategies for data at rest and in transit using AWS Key Management Service (KMS)
- ➔ Automated security compliance checks using AWS Config Rules and AWS Lambda functions, reducing manual effort and ensuring continuous adherence to security standards.
- ➔ Implement robust monitoring tools to track key metrics, ensuring continuous measurement against SLOs.
- ➔ Designed and deployed cloud solutions in AWS, ensuring high availability and scalability for client applications.
- ➔ Ensured efficient data storage and adherence to security policies, implementing IAM roles, security groups, and network ACLs to protect sensitive data.
- ➔ experienced Cloud Engineer with designing and supporting cloud environments, including IaaS and PaaS

System Engineer

EVRY India Private Limited

A Tieto EVRY Company

August 2023- Present

Languages Known

Kannada

English

Telugu

Technical Skills:

Cloud Platforms: AWS

Cloud Services: EC2, S3, RDS, VPC,

Functions Infrastructure as Code: Git,

Jenkins CI/CD pipelines, Ansible,

Terraform.

containerization: Kubernetes, Docker

Security: Identity and Access Management (IAM), Security Groups, Network ACLs, Cloud trail

Knowledge in AWS config, AWS service catalog, cost explorer,

- ➔ Implemented end-to-end DevOps practices, integrating CI/CD pipelines for rapid and reliable software delivery.
- ➔ Created DevOps best practice documents in confluence and shared with team to follow best practices.
- ➔ Collaborated with infrastructure partners to establish robust test data backup and recovery tools, ensuring data integrity and business continuity.
- ➔ Automate the build of containerized systems with CI/CD tooling, Helm charts, and more.
- ➔ Designing and deploying new infrastructure in AWS with S3, VPC, subnets, Load Balancer,Cloud Watch
- ➔ Created technical design recommendations for developing and integrating new software and system technologies, ensuring alignment with written specifications.
- ➔ Led the adoption of serverless computing by implementing AWS Lambda for specific workloads, reducing infrastructure costs and improving scalability.
- ➔ Led the containerization initiative by setting up a Kubernetes cluster and migrating multiple applications to Docker containers, improving scalability, resource utilization, and enabling seamless application deployment and management.
- ➔ Troubleshot and supported containerization technologies such as Kubernetes and Docker, enabling seamless application deployment and management.
- ➔ Build and configure Kubernetes-based infrastructure, networking policies, LBs, and clustersecurity, Define -auto scaling and cost strategies.
- ➔ Collaborated with cross-functional teams to implement best practices in the software development lifecycle, including unit and integration testing, source code management, and continuous integration.
- ➔ Implemented robust monitoring solutions like CloudWatch, Prometheus, or Grafana for proactive system health management.

Projects: 1
About Client: DXC Technology are responsible for building and operating critical internal and external services.

Technical/Business Challenge

Mission Critical application used by bank customers in FAB. Currently, being provisioned on **AWS** Environment and facing challenges like:

Automation: Cloud Formation,
Monitoring: CloudWatch, Prometheus
Networking: DNS, VPN, Load Balancers
Scripting: Python, Bash
Operating Systems: Linux, Windows.

AWS DevOps Engineer
Valley Infosystem
Sep 2019 – August 2023

- ➔ No Version control for Application and IAC Code, so developers were facing challenges in collaboration and managing codes
- ➔ Developers were building the application code locally and deployed to AWS environments (DEV, QA, PROD) and it was time consuming and prompt to manual error.
- ➔ Manual Release Process through Change Sets in AWS leads to the longer deployment cycle.
- ➔ Worked on Create API for Scanning Docker Image using Python.

Solution

- ➔ Introduced **Best Practices** of using Version Control System like **Git – GitHub.**
- ➔ Configured Jenkin to build and deploy application and IAC code on AWS environment using CI/CD
- ➔ Implemented **Best Security Practices** in **GitHub** by creating Groups for multiple teams like Admin, Dev, QA, Operations etc. and providing appropriate **permissions** to the respective groups for accessing **Project, Repos** etc.
- ➔ Migrated the on-premises infrastructure to **AWS** by using various DevOps and Cloud tools.

Benefits

- ➔ **Better Management** of **Code Base** through **Repos.**
- ➔ **Faster Releases** of Salesforce Application with the help of **Jenkin CI/CD Pipelines**.
- ➔ **Secured** the **GitHub** Project by assigning multiple **permissions** to **Users** and **Groups.**

Project:2

About Client: The client's mission revolves around leveraging cutting-edge technology to create a positive impact on Banking services.

Location: Bangalore

Environment: GIT, Maven, Jenkins, shell, Tomcat, Linux, Ansible, Docker, Terraform,Monitoring Tools (Grafana, Prometheus).

Technical/Business Challenge

Mission Critical application used by customers globally. Currently, being provisioned on-premises and facing challenges like:

- ➔ Developers were creating resources in AWS manually.
- ➔ Manual Release Process leads to the longer deployment cycle.
- ➔ No real time monitoring of the applications.

Solution

- ➔ Introduced **Terraform** to automate the creation of resources in AWS.
- ➔ Deployed their Application - **Frontend (React)** & **Backend (Python)** in **Docker** containers and automated it using **Jenkin CI/CD Pipelines**.
- ➔ Design the application from monolithic to microservice.
- ➔ **Docker Images** were deployed to **ECR** to **store** and **manage** the **container images.**

- ➔ **ECS for Containers** was configured to pull **container images** from **ECR.**
- ➔ **AWS S3** was used to store and reference application related files, images etc.
- ➔ Application related **Secrets** and **Certificates** were stored and referenced from **secret manager.**

Benefits

- ➔ **Reduced cost** of idle infrastructure as everything is being managed by AWS and we have the **flexibility** to **choose pricing tier** as per our requirement.
- ➔ **Faster Releases** of Application with the help of **Jenkin CI/CD Pipelines**.
- ➔ Realtime Monitoring through different services in **AWS CloudWatch**

Education

B.E.
KNS Institute of Technology, Yelahanka, Bangalore
August 2016 – June 2019, **CGPA** – 7.5/10

Diploma
Sridevi Polytechnic, Sira gate, Tumkur

April 2014– April 2016, **Percentage** – 75%	