

Mohammed Farhan
Sr. Cloud Engineer
+91-8978605937



nabi.farhan198@gmail.com

Professional Summary

- Expertise in **AWS Cloud** that has services **EC2, S3, EBS, VPC, ELB, AMI, SNS, RDS, IAM, Route 53, Auto scaling, Cloud Front, Cloud Watch, Cloud Trail, Cloud Formation** and **Security Groups**. And updated existing AWS infrastructure as a code and deployed via **Terraform** and **AWS Cloud formation**.
- Created Automated pipelines in **GitLab** to deploy **Docker** containers in **AWS EC2** using services like **Terraform, Maven, GitLab CI, S3 and EKS**.
- Experience dealing with **Microsoft Azure IaaS - Virtual Networks, Virtual Machines, Cloud Services, VPN, Resource Groups, Load Balancing, Application Gateways, Auto- Scaling, Traffic Manager**.
- Worked on **Terraform** for infrastructure as code, execution strategies, resource graphs, and change automation also used **Terraform scripts** to launch automated **instances** for manually launched ones.
- Worked on **Docker's App Containerization** technology, which includes building **Docker images, Containers**, a cloud-based registry called **ECR** for storing images, and **EKS** for controlling containers.
- Implemented **Continuous Integration** and **Continuous Delivery** using **GitLab CI, Maven** and **GIT** as well as branching, tagging, merging and maintaining the version across the environments using version control tools such as **GITLAB**.
- Knowledge of deployment techniques like **Blue-Green** and Rolling updates in **Kubernetes** for updating apps and encoding bespoke **ConfigMaps** and **secrets** for security.
- Created and maintained highly scalable and fault tolerant multi-tier **AWS and Azure environments** spanning across multiple availability zones using **Terraform**.
- Provided automated, scalable solutions using tools like **AWS, Terraform, Kubernetes** for end-to-end reliability and **scalability** of automated deployments and **continuous improvement** with **high availability, high productivity**.
- Experienced in installing and configuring **Kubernetes**, clustering them, and managing local deployments to provide a consistent environment for **deployment scaling and load balancing** from development through production.
- Implemented **GitOps workflows using Argo CD** to automate continuous deployment of microservices to Kubernetes clusters, ensuring reliable and consistent application delivery.
- Configured and managed **Argo CD applications** for multiple environments (dev, staging, prod) with automated sync policies and health checks.
- Strong ability to troubleshoot any issue generated while **building, deploying** and during **production**.

Technical Skills

Cloud Platforms	AWS, Azure
AWS Cloud Services	IAM, VPC, EC2, S3, EBS, ELB, Route 53, SNS, CloudFront, SNS, ECS, EKS, Auto Scaling (ASG), CloudWatch, CloudFormation, Elastic Beanstalk
Azure Services	Azure App Services, IIS, Azure AD, ARM, Azure Data Factory, VMs, VNETs, etc;
SCM/Version Control Tools	GIT, GitHub, GitLab, Bitbucket.
Continuous Integration Tools	GitLab CI, Jenkins.
Build Tools	Maven.
Configuration Management Tools	Ansible.
Containerization Tools	Docker, Kubernetes
Scripts/ Languages	UNIX, HTML, React JS, bash, YAML, Python.
Databases	SQL Server, PostgreSQL, MS SQL, MongoDB.
Networking Protocols	TCP/IP, SSH, FTP, DHCP, SCP
Monitoring Tools	Splunk, CloudWatch, ELK
Bug Tracking, code coverage Tools	JIRA, Bugzilla, SonarQube
Operating System	UNIX, Linux (Ubuntu, RHEL, Centos), Windows

Professional Experience

Sr. Cloud Engineer – Oberon Infotech Pvt Ltd., Hyderabad, India

Client: Gerber Collision & Glass, Elmhurst, IL

Feb 2024 – Sep 2025

- Orchestrated the design and implementation of a multi-region, highly available infrastructure on **AWS** and **Azure**, reducing single points of failure and improving application resilience by **99.9%**.
- Created a secure zone for organizations using **Network ACLs**, **Internet Gateways**, **NAT instances**, and **Route tables**; worked on core AWS services like setting up new servers in AWS and creating life cycle policies to backup data from AWS **S3** and used **Terraform** to migrate legacy and **monolithic** systems to AWS.
- Integrated Control Tower with AWS Organizations, IAM Identity Center, and Service Control Policies (SCPs)** for centralized access management and compliance enforcement.
- Customized guardrails and baseline configurations** to meet organization-specific security and operational requirements.
- Configured landing zones** using Control Tower to automate account provisioning with centralized governance, guardrails, and compliance policies.
- Designed and implemented AWS Transit Gateway (TGW)** to connect multiple VPCs and on-premise networks, ensuring scalable and efficient network management.

- Automated the provisioning of complex, multi-tier application environments using **Infrastructure as Code (IaC)** with **Terraform** across **AWS** and **Azure**.
- Implemented and managed **CI/CD pipelines** using **Gitlab CI** to automate build, test, and deployment processes, enabling multiple daily production releases.
- Enforced **security** and compliance **governance** across AWS and Azure environments using **AWS Config**, **Azure Policy**, and **custom scripts**, ensuring adherence to **HIPAA** standards.
- Reduced monthly cloud spend by 25% through strategic rightsizing, implementing reserved and spot instances, and leveraging **Azure Cost Management + AWS Cost Explorer** for detailed reporting and budgets.
- Deployed application which is containerized using **Docker** onto a **Kubernetes** cluster which is managed by **Amazon Elastic Kubernetes Service**. (EKS).
- Managed and secured **Kubernetes** networking using **Kubernetes Services** and **Ingresses**, implemented Kubernetes **network policies** to restrict traffic between microservices, and utilized **AWS load balancers** such as **Application Load Balancers** to manage incoming traffic.
- Established comprehensive **monitoring**, **logging**, and **alerting** using **AWS CloudWatch**, and **Prometheus/Grafana** to ensure system health and proactive incident response.
- Led incident response, troubleshooting, and resolution for critical production outages in cloud environments, improving **Mean Time to Resolution (MTTR)** by 35%.
- **Defined and managed Kubernetes manifests and Helm charts** stored in Git repositories and automated their deployment via Argo CD.

Software AWS Engineer – Pristen IT Systems Pvt. Ltd., Austin, TX; USA

Client: Gerber Collision & Glass, Elmhurst, IL

Nov 2022 – Feb 2024

- Experience in designing and deploying AWS Solutions using **EC2**, **S3**, **EBS**, **Elastic Load balancer (ELB)**, **auto scaling groups**, **RedShift**.
- Implemented **DevOps best practices** by integrating **Docker** and **Kubernetes** into CI/CD pipelines for seamless application deployment and scaling.
- Researched and evaluated **emerging cloud and DevOps technologies** to improve system performance, automation, and scalability.
- Designed, developed, and tested **software and mobile applications**, ensuring high performance, security, and reliability.
- Building servers on AWS, importing volumes, launching **EC2**, creating **security groups**, **auto-scaling**, **load balancers**, **Route 53**, **SES** and **SNS** in the defined **virtual private cloud**.
- Provided end-to-end **infrastructure support on AWS and Azure**, including provisioning, monitoring, and cost optimization.
- Configured **AWS Cloud Watch**, **Cloud Trail** to monitor AWS resources, including creating AWS customized Scripts to monitor various application and system & Instance **metrics** and **events**.
- Monitored and investigated **security incidents**, identifying vulnerabilities and implementing preventive measures.
- Used **Auto-scaling** and **Elastic Load Balancer** features on **EC2** instances to serve the end users using applications during unexpected traffic/demand.
- Developed and maintained **network and cloud infrastructure**, automating provisioning and configuration using **Terraform**.

- Defined and enforced **information security strategies and access control policies**, managing firewalls, IDS, and antivirus tools.
- Performed **system testing, troubleshooting, and performance tuning**, preparing detailed maintenance documentation and upgrade plans.
- Managed project timelines and deliverables in **JIRA**, ensuring **SLA adherence** and timely completion of all assigned tasks.

Sr. Software Analyst – Capgemini Technology Services India Ltd., Hyderabad, India

Client: Tamm - Abu Dhabi Government Services

Mar 2020 – Dec 2021

- Provided **infrastructure and system support** for development and test environments.
- Developed and maintained **responsive web interfaces** using **React.js, JavaScript, HTML5, and CSS3** for internal operational tools.
- Collaborated with backend and DevOps team to make sure seamless integration between APIs, databases, and frontend components.
- Monitored application performance and logs using **Kibana**, identifying UI-level and API-related issues and reporting them to relevant teams.
- Implemented UI enhancements and bug fixes to improve user experience and reduce operational downtime.
- Supported testing and debugging of frontend applications to ensure optimal performance across browsers and devices.
- Used version control systems **GitHub** for source code management and collaborative development.
- Assisted in server setup, OS configuration (Windows/Linux), and user account management.
- Supported application deployment and troubleshooting during integration and release cycles.
- Participated in daily stand-ups and sprint reviews, contributing to Agile development and timely delivery of features.
- Collaborated with IT operations to ensure **system availability and security compliance**.
- Gained hands-on exposure to **cloud tools** used for internal testing environments (AWS/Azure).

Education

Master of Science in Cyber Engineering - University of the Cumberlands, Kentucky, USA(2023)

Bachelor of Technology in Electronics and Communications Engineering – Jawaharlal Nehru Technological University, Hyderabad (2019)

Certifications

- AZ-305: Designing Microsoft Azure Infrastructure Solutions**