

# Mohammed Shahbaaz S

mshahbaazshareef@gmail.com • 4696471311 • [linkedin.com/in/mohammed-shahbaaz-shareef/](https://www.linkedin.com/in/mohammed-shahbaaz-shareef/) • [mshahbaaz.com/](https://mshahbaaz.com/)

## Education

### UNIVERSITY OF TEXAS AT ARLINGTON

Masters in Computer and Information Sciences [GPA: 3.66/4.0]

Relevant Coursework: Design and Analysis of Algorithms, Data Structures, Applied Database Design, Programming in Python, Cloud Computing

ARLINGTON, TX

Anticipated Fall 2024

### OSMANIA UNIVERSITY

Bachelor of Science in Computer Engineering

HYD, INDIA

May 2019

## Work Experience

### Red Piranha

Site Reliability Engineer

Remote

03/2022 - 01/2023

- Deployed and orchestrated Crystal Eye VM instances across **multi-cloud environments, including AWS and Azure** leveraging secured and highly scalable automation techniques using **Python, Terraform and Ansible**
- Developed and deployed **Python scripts for infrastructure automation bots**, enabling automated scanning and management of AWS accounts, resulting in a remarkable **40% increase in compliance self-service**, reducing operational overhead
- Deployed **Elasticsearch / Wazuh based DSIEM** with Kafka, enabling real-time monitoring and analysis of security logs, resulting in a **20% reduction in mean time to detect security incidents**.
- Implement And Maintain Optimized performance of Elasticsearch cluster on **Vsphere production systems** by implementing **ILM policies and scaling**, resulting in a **15% improvement** in search query response times.
- Increased **testing and deployment cycles by 10 %** by using automated testing with postman/Newman intergrated in **DevOps pipelines and CI/CD systems**

### Apexon

Site Reliability Engineer

Remote

03/2021 - 01/2022

- Optimized Large Scale ELK stack for Cost savings with Right sizing and Index rotation policies **saving 10 % on Cost**
- Used CloudFormation for creating subnets, security groups, Entire **ECS Cluster across 3 Environments**
- Developed pipelines with **Fastlane and Jenkins** that deploys to Playstore,iOS App store that **reduces manual Operations by 30%**
- Integrated tools like **Snyk, owasp zap, sonarqube and Appknox** for vulnerabilities scanning in the Build and release process
- Active member of **Cloud Centre of Excellence in the GCP Practise** -Build,deploy K8s clusters based on opinionated terraform modules

### NTT DATA

Associate Software Development Engineer(Site Reliability Engineering)

Hyd, India

01/2019 - 02/2021

- Build And Manage Automated logging from cloud watch to opensearch filter/subscription pattern which yielded **20% more cost savings**
- Create **python lambda function** to automate index policies in Elasticsearch/Opensearch
- Wrote **python scripts** to automate creation and closure of Service now request in **Azure DevOps**
- Wrote IAC in python with **AWS CDK and boto3**, this poc resulted in streamlined Disaster Recovery Environment
- Troubleshoot and Respond to production incidents with pagerduty and implement immediate resolution efforts across Legacy and Cloud Platforms, **reducing Incident Response time by 5%**

### Bothook

Software Developer Intern(Python Development Intern)

Hyd, India

05/2017 - 07/2017

- Deployed high-accuracy cryptocurrency microservices, improving response times by 15% and impressive 99.5% data accuracy rate
- Developed a dynamic **Flask application** utilizing Bootstrap for an enhanced user experience, integrated with WTForms for form rendering and validation, resulting in a 30% reduction in form submission errors and a seamless user interface.
- Used **Beautiful Soup for scraping web** and directly feeding results to chatbot conversational scripts

## Leadership & Activities

- **IEEE Computer Society Chairperson** and Treasurer of IEEE Student Chapter for the academic year 2018 -2019
- Active member of **DevOpsDays Dallas** and Hashicorp user group Dallas

## Projects

### AWS Elastic Kubernetes Service to ECS (Elastics Container Service) Migration

Spearheaded Assesment, Migration Plan, Cost Analysis and Infrastrucutre deployment

- Develop a **migration strategy** that outlines the step-by-step process of transitioning from ECS to EKS Infra
- Wrote **Custom Terraform modules** with version-controlled repositories for ECS infra(**Task definition, Autoscaling policies, ECR, Jenkins pipelines**)
- Set up monitoring solutions such as AWS CloudWatch Container insights and **Prometheus/Grafana** for comprehensive visibility into ECS clusters.

### Robust Disaster Recovery Solution with AWS and CDK (Cloud Development Kit)

Leveraged AWS Cloud Development Kit (CDK) to rapidly deploy Disaster Recovery infrastrucutre to AWS Cloud

- Utilized CDK to define and deploy **disaster recovery infrastructure** as code (IAC), allowing for replication of the environment in the event of a disaster.
- Implemented l1,l2 constructs with **object-oriented design principles** in Python to create modular, maintainable code
- Designed **automated data backup and replication mechanisms**, ensuring that critical data is continuously synchronized

## Skills

**Virtualization/Cloud:** Amazon Web Services (AWS), AZURE, GCP, VMWARE Vsphere, Kubernetes orchestration

**Programming Languages:** Python, SQL, C, C++, Bash, Powershell ,Helm Charts, YAML, Jenkins pipelines, Terraform HCL

**Frameworks, Tools :** Python flask, Kubernetes CKA, Serverless Framework,, Jenkins, Bash, Ansible, Azure DevOps

**Certifications:** Certified Terraform Associate, Google Cloud Certified Professional Architect, Azure 900, AWS Cloud Practioner

**Tools:** Jenkins, Github Actions, Jira, Servicenow, DataDog, GCloud CLI,AWS CLI

**Work Authorisation:** legally authorized to work in the US for 3 years, will need sponsorship for Fulltime