# Mohammed Shahbaaz S

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## Education

**UNIVERSITY OF TEXAS AT ARLINGTON**                                                                   **ARLINGTON, TX**
Masters in Computer and Information Sciences [GPA: 3.66/4.0]                                 Anticipated Fall 2024
Relevant Coursework: Design and Analysis of Algorithms, Data Structures Applied Database Design, Programming in Python, Cloud Computing

**OSMANIA UNIVERSITY**                                                                                            **HYD, INDIA**
Bachelor of Science in Computer Engineering                                                                  May 2019

## Experience

**Red Piranha**                                                                                                          **Remote**
Site Reliability Engineer                                                                          March 2022 — January 2023
- Deployed Crystal Eye VM's in **AWS, Azure with Secured and Scalable automation** , enhancing security measures and reducing potential vulnerabilities in the cloud infrastructure.
- Wrote **python scripts for infra bot's** that scan aws accounts to automate tasks like bucket cleanup, tagging, Iam unsused user's etc, this **increased complaince self service by 40 percent**
- Deployed Elastisearch based DSIEM with Kafka connectors, 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 Elastisearch 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**

**Appexon**                                                                                                              **Remote**
Site Reliability Engineer                                                                          March 2021 — January 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**                                                                                                          **Hyd, India**
Associate Software Development Engineer(Site Reliability Engineering)                January 2019 — March 2021
- Build And Manage Automated loggging from cloud watch to opensearch filter/subscription pattern which yielded **20% more cost savings**
- Create **python lambda function** to automate index policies in Elastisearch/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**                                                                                                           **Hyd, India**
Software Developer Intern(Python Development Intern)                                        May 2017 — July 2017
- Analyze, design and build **microservices that that fetches real time crypto currency data** and perform call to action with notification
- Design a flask application with **Bootstrap Python and use WTFORMS** to render and validate fields
- Used **Beautiful Soup for scraping web** and directly feeding results to chatbot conversational scripts
- Work with agile and cross functional teams to build data pipelines for Data Analytics

## 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

**Electronic Voting Machine using Raspberry Pi**
Use Raspberry pi as embeded voting machine with Blockchain
- Coded JSON database which returns proper candidates ID after fingerprint verification(pyfingerprint)
- Visualizing sensor data and perform analytics with Matlab and work on enterprise level deployment with IBM Watson IoT and IBM Blockchain
- Push input JSON data to Ethereum smart contract through MQTT payload

**AWS Cloud Development Kit**
AWS Cloud Development Kit (CDK) to rapidly deploy infrastrucute to AWS Cloud
- Wrote cdk contructs to deploy flask based backend to ecs fargate containers
- Use l1 and l2 constructs to create load balanced container service
- Use object oriented programming approach to deploy IAC

## Skills & Certifications
**Virtualization/Cloud:**  Amazon Web Services, AZURE, GCP & VMWARE Vsphere, Kubernetes orchestration
**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
**Certfications:**  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.