

# Syed Khadeer Ahmed

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## PROFESSIONAL SUMMARY

DevOps Engineer with 3+ years of experience specializing in Python automation, Infrastructure as Code, and network automation. Expert in developing Ansible modules for Cisco DNA Center, implementing CI/CD pipelines, and building containerized monitoring solutions. Proven track record of reducing manual operations by 60-80% through strategic automation. Open-source contributor with extensive experience in cloud infrastructure management and observability platforms.

## TECHNICAL SKILLS

**Programming & Scripting:** Python, REST APIs, Boto-3

**Infrastructure as Code:** Ansible, Terraform, VMware provisioning

**Containerization & Orchestration:** Docker, Kubernetes, Container Registry

**CI/CD & Version Control:** GitHub Actions, GitOps workflows, Git, GitHub

**Cloud Platforms:** AWS (EC2, VPC, S3, IAM, EKS), Azure (AZ-104 certified)

**Monitoring & Observability:** Grafana, Prometheus, Zabbix, Node Exporters

**Database Management:** MySQL, Data Management Systems

**Network Automation:** Cisco Catalyst Center

**Testing & QA:** Unit Testing, Sanity Testing, Integration Testing, Ansible Workflows

## PROFESSIONAL EXPERIENCE

### Engineer

*L&T Technology Services*

Feb 2024 – Present

*Chennai, Tamil Nadu, India*

- Developed custom Ansible automation modules for Cisco Catalyst Center (DNA Center) as part of Infrastructure-as-Code initiative, reducing manual network management tasks by 60% and contributing to open-source dnacenter-ansible project
- Engineered end-to-end automation workflows including User Role Management, Provision Workflow, Inventory Tracking, and Software Image Management, reducing configuration time by 50% and improving asset visibility by 40%
- Implemented Software Image Management System with golden image tagging and automated distribution, decreasing deployment time by 70% while ensuring enterprise-wide device compliance
- Architected version-based routing for REST API management enabling backward compatibility and simplifying code maintenance across multiple API versions
- Integrated automated provisioning APIs for user management and software image imports, reducing manual API call requirements by 80% across network operations
- Conducted comprehensive unit, sanity, and integration testing using Ansible test workflows, improving deployment reliability by 90% in large-scale production environments
- Developed CI/CD workflows using GitHub Actions to streamline software release cycles, reducing deployment time from hours to minutes

### Engineer Trainee

*L&T Technology Services*

Jun 2022 – Feb 2024

*Chennai, Tamil Nadu, India*

- Built containerized monitoring platform using Prometheus, Grafana, and Zabbix deployed on Kubernetes for high availability, improving incident detection and response time by 40%
- Integrated Symphony Summit ITSM with Grafana via REST APIs for automated ticket management using Python and MySQL, streamlining incident response workflows
- Automated infrastructure provisioning using Terraform and Ansible, reducing manual setup time by 60% and eliminating configuration drift across VMware environments
- Designed real-time monitoring dashboards in Grafana for VMware vCenter tracking CPU, memory, storage, and network metrics, improving RCA speed by 35%
- Implemented Prometheus for Kubernetes cluster monitoring with Node Exporters ensuring precise data collection and performance tracking

- Developed centralized management database using Python and MySQL for analyzing data from multiple applications and network devices
- Configured Zabbix agents and SNMP for efficient data collection from network infrastructure and virtualization platforms

### Python Developer Intern

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Jan 2022 – Apr 2022

Chennai, Tamil Nadu, India (Remote)

- Developed web applications using Python Flask framework with responsive HTML/CSS interfaces for client business requirements
- Implemented authentication and authorization mechanisms ensuring secure access control and user management
- Designed and integrated MySQL database schemas for efficient data management and optimized application performance

### EDUCATION

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#### Aarupadai Veedu Institute of Technology

Bachelor of Engineering in Electronics and Communications Engineering

Jul 2017 – Aug 2021

CGPA: 7.78/10

### CERTIFICATIONS

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**Microsoft Certified: Azure Administrator Associate (AZ-104)** - Microsoft

**Microsoft Certified: Azure Data Fundamentals (DP-900)** - Microsoft

**Microsoft Certified: Azure Fundamentals (AZ-900)** - Microsoft

**Introduction to Docker and Kubernetes** - Cisco thingQbator UVCE

### KEY ACHIEVEMENTS

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**Open-Source Contribution:** Active contributor to dnacenter-ansible open-source project, enhancing automation capabilities for Cisco DNA Center and supporting community-driven improvements in network management

**Network Automation Excellence:** Reduced manual network operations overhead by 60-80% through strategic automation of provisioning, user management, inventory tracking, and software image distribution workflows

**Enterprise Monitoring Platform:** Architected production-grade containerized monitoring stack with 90% deployment reliability, ITSM integration, and real-time dashboards across large-scale network environments