

# Dhruv Mehul Shah

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## EDUCATION

**MS - Network Engineering**, *Southern Methodist University*

Aug'21 - May'23

**Relevant Coursework:** Advanced Cloud Engineering, Routing & Switching, TCP/IP Network Administration, DevOps, Network Protocols, Advanced Network Design, Data Center for Network Engineers

**BE - Electronics & Telecommunication Engineering**, *University of Mumbai*

Aug'16 - Nov'20

## CERTIFICATIONS

**AWS** AWS Certified Solutions Architect Associate C-02, AWS Certified Cloud Practitioner

**Microsoft** Microsoft Certified Azure Administrator (AZ-104), Microsoft Certified Azure Fundamentals (AZ-900)

**LPI** LPI Certified Linux Essentials

**HashiCorp** HashiCorp Certified Terraform Associate (003)

**Cisco** Cisco Certified Network Associate (Trained)

**CNCF** Certified Kubernetes Administrator (Trained)

## SKILLS

**Cloud/DevOps** AWS, Docker, Ansible, Git, Terraform, Kubernetes, CI/CD Jenkins, Prometheus, Grafana

**Network Concepts** TCP/IP, DHCP, DNS, ARP, ICMP, Subnetting, IPv4/v6, VLAN, STP, SSH, NAT, OSPF, BGP

**Software Tools and OS** Wireshark, Putty, GNS3, Eve-ng, VMWare, VirtualBox, OS[Windows, Linux], Jira, LucidChart

**Programming Languages** Python, YAML, Bash scripting

## PROJECTS & LABS

### Cloud Computing:

- **Deployed a static website on AWS;** utilized AWS S3, CloudFront, Route 53, and ACM; implemented code pipeline for edge caching, DNS management, and SSL/TLS certificates.
- **Comprehensive AWS EKS Cluster Monitoring;** To achieve comprehensive monitoring for an AWS EKS (Elastic Kubernetes Service) cluster, we will leverage open-source tools such as Prometheus, Grafana, and the EFK stack.
- **CI/CD Pipeline Implementation;** Built an end-to-end CI/CD pipeline for a web application using AWS CodePipeline and CodeDeploy; Automated testing, packaging, and deployment stages to ensure consistent and rapid software releases.
- **Infrastructure Automation with Terraform;** Created TerraTowns web app; Developed Go-based Terraform provider, AWS integrated, with HCL and GitOps. Managed servers, debugging, & production transition for CRUD efficiency.
- **Linux Shell Scripting for Automation;** developed shell scripts to automate routine tasks and system configurations in a Linux environment; enhanced operational efficiency by reducing manual intervention; and minimizing errors.
- **Automating Deployments with Ansible;** Using Ansible to automate the deployment of Nginx, applications, and MongoDB with a security-first approach.

**DataCenter Network :** Deployed ESXI hypervisors to create CentOS and Ubuntu VMs; implemented technologies such as Docker, Kubernetes, Ansible, and Git.

**Routing & Switching and Network Protocol Analysis:** Designed network topologies, troubleshooted, and analyzed packet flow, conducted a detailed study of protocols using Wireshark and Ping Plotter.

## EXPERIENCE

**Southern Methodist University**

*Dallas, TX*

*Teaching Assistant*

Jan'22 - May'23

- Facilitated student learning for "Introduction to Networks and Network Protocols" through clear communication, query resolution, and course material guidance, resulting in a high 4.8/5 rating. Assisted students with hands-on lab work related to networking and DevOps.

**Network and Hardware Customer Support at OIT**

May'22 - Dec'22

- Provided exceptional customer support to 8-10 clients daily using I-Support tools, resolving inquiries, and ensuring client satisfaction. Enhanced server systems, troubleshooting network issues, and consistently left customers content and issue-free.

**Student Assistant at Collins Executive Education Center**

Aug'21 - May'23

- Assisted with invoices, tech support, student inquiries, facility oversight, and exam scheduling.

**Airports Authority of India**

*Mumbai, India*

*Industry Trainee*

May'19 - Jun'19

- Gained insights into the functioning and communication within the CNS department for aircraft safety.