

# TARUN VIGNESH SELVABALAJI

## Systems Engineer

+1 2269619401 @ tarun.selvabalaji@gmail.com [LinkedIn](#) Ontario, CA

### SUMMARY

Certified CCNA networking enthusiast and AWS Solutions Architect Professional with 3 years of experience in IT infrastructure management, automation, and cloud solutions. Skilled in troubleshooting and optimizing network performance, with a passion for working in sophisticated networking environments. Actively seeking challenging roles to leverage my technical expertise and contribute to innovative and dynamic organizations.

### EXPERIENCE



Systems Engineer

2020 - 2023

Tata Consultancy Services

Chennai, IN

- Integrated AWS solutions with on-premises infrastructure and supporting seamless cloud migrations and boosting overall system performance.
- Monitored network using Splunk, for proactive resolution of performance issues.
- Created MOPs and documented network maintenance tasks.
- Managed Microsoft networks, Active Directory services, and AWS hybrid cloud architecture for a user base of 100k+ and over 1000+ servers.
- Collaborated with network teams on BGP/OSPF troubleshooting, optimizing routing protocols for better efficiency.

### PROJECTS

Network Management and Automation

01/2025 - Present

Working on Netmiko and Ansible for automating network management

- Practiced templating concepts using Jinja2 and YAML
- Used SNMP for polling and monitoring network metrics.

Redundant Multi-Zone Network Design

10/2024 - 01/2025

Redundant Multi-Zone Enterprise Network Design with Advanced Routing and Security

- Designed a multi-zone network using OSPF and EIGRP for routing and high availability.
- Configured NAT on border routers for secure external connectivity .
- Deployed VRF, HSRP, and IP SLA for dynamic routing and failover support.
- Optimized network performance with VLAN segmentation and failover routing.

Automated Hybrid Infrastructure Management

03/2021 - 06/2023

Enabling seamless connectivity between on-prem and cloud infrastructure

- Automated hybrid infrastructure using Python, reducing manual tasks by 40%.
- Utilized AWS APIs for dynamic resource provisioning based on performance metrics.
- Implemented Splunk for real-time monitoring and reducing downtime significantly.

Workout Tracker Using AWS Serverless App

06/2024 - 07/2024

Developed a serverless workout tracker with AWS Lambda, API Gateway, and DynamoDB, featuring a responsive frontend for seamless data interaction.

- Hosted the frontend in AWS Amplify for quick deployment
- Implemented Lambda functions for data submission and retrieval (GET and POST REST API) to enable efficient serverless operations.
- Designed a responsive frontend with HTML, CSS, and JavaScript to visualize workout data and interact seamlessly with the API.

Static Website Deployment with Terraform

08/2024 - 09/2024

Created and deployed solution using (IaC) Terraform

- Explored terraform capability with AWS to experiment
- Deployed and managed AWS credentials and IaC with Terraform scripts.
- Automated S3 bucket creation and content delivery via terraform.



### EDUCATION

M.Eng - Computer Engineering

University of Windsor

09/2023 - 12/2024

Windsor, CA

B.Tech - Electronics and Communication Engineering

Amrita Vishwa Vidyapeetham

06/2016 - 06/2020

Coimbatore, IN

### SKILLS

VLAN · VTP · STP · MST · RSTP · PVST · RPVST · SVI · Ether Channel · ARP · LACP · MLAG · DHCPv4 · DHCPv6 · DNS · VRF · VRRP · RIP · EIGRP · OSPF · BGP · NAT · PAT · SNMP · NMAS · ZTP · Dot1.q · Dot1.x · VXLAN · eVPN · ECMP · MPLS · NTP


Git · Ansible · Python · Splunk · Netmiko · Terraform · AWS VPC · Linux


### CERTIFICATIONS

Cisco Certified Network Associate (CCNA)

AWS Solution Architect Professional (SAP-C02)

### REWARDS

 TCS Special Achievement Award

 TCS Star Contributor Award