Contact

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harishanandaramanujam
(LinkedIn)

Top Skills

Continuous Integration and
Continuous Delivery (CI/CD)

Root Cause Analysis

Causal Analysis

Languages

Tamil (Native or Bilingual)

Hindi (Professional Working)

Sanskrit (Elementary)

English (Full Professional)

Certifications

Network Developer Group - Linux
Essentials

Internet of Things

Cisco Certified Network Associate
Routing and Switching (CCNA)

Code Warmers club

IEEE Winter School on
Computational Intelligence and its
applications

Honors-Awards

Winner Project Display

Solicitude Award

YSKBV Award

Nominee - Panickker Award

Google India Challenge Scholarship
Recipient

Publications

IoT based Control and Management
of Thermal Power Plants for Robust
Operation

IoT in Power Systems

Harish Ananda Ramanujam

Software Engineer at Viasat Inc.
San Diego, California, United States

Summary

I enjoy bringing in Network Automation and Programmability for
Global Infrastructure. I get my hands on design, implementation,
testing, deployment, and operating network automation systems.

I'm multi-faceted and so like to solve challenging problems by
working on non-conventional solutions.

Some of the skills that I like to keep me updated are Routing &
Switching (BGP, MPLS, OSPF, EVPN, Vxlan, etc), DevOps (CI/
CD, Jenkins, Git), Programming (Python, Go, Vuejs), Virtualization
(Docker, Kubernetes, OpenStack), Cloud (AWS) and Security
(Firewall, Penetration Testing)

Experience

Viasat Inc.
4 years 6 months

Software Engineer - II
January 2022 - Present (3 years 6 months)
Carlsbad, California, United States

MLOps, Intent-Based Networking, Self-Driving networks, Network Reliability
Engineering

Software Engineer
January 2021 - January 2022 (1 year 1 month)
Carlsbad, California, United States

Northeastern University
Instructional Assistant
September 2020 - December 2020 (4 months)
Boston, Massachusetts, United States

Global Resilience Institute
Security Engineer - Cyber Resilience

January 2020 - December 2020 (1 year)
Boston, Massachusetts, United States

• Created and maintained VPC on AWS with EC2, ELB, S3, EBS, Route53, Cloud Watch, Auto Scaling, and Lambda based on the project requirements.
• Automated the Replication process using Cloud Formation/Terraform to replicate multiple environments based on client requirements.
• Configured MFA server and Microsoft AD to implement 2 step authentication using Duo for AWS Workspace
• Hosted Nginix, Open VPN, SIEM and Postfix servers and Managed security groups, Network ACLs for cloud security
• Implemented VDI infrastructure using Zero Client over PCoIP in AWS cloud which significantly decreased deployment and scaling time
• Evaluated cloud infrastructure against FedRAMP and NIST compliance frameworks. Performed Penetration testing and system hardening of Linux, Windows-based operating systems to ensure system stability and security
• Proficient with containerization and orchestration using Docker and Kubernetes
• Used Ansible and Ansible Tower as a Configuration management tool to automate repetitive tasks
• Analyzed multiple cloud security products and generated a Vendor-comparison matrix with 50+ criteria. This makes it easier for US Electric utility companies and Regulators to make informed decisions on products that meet their security needs.

Charles River Development
Network Infrastructure Engineer
July 2019 - December 2019 (6 months)
Burlington, Massachusetts

• Implemented IEEE 802.1x based NAC (Network Access Control) on both wired and wireless networks by defining Roles replicating firewall policies with services and rules for granular control of 3000+ end devices.
• Configured Juniper SRX1500 firewall with Security Zones, Address books, Policies, DHCP pool, NAT/PAT for isolating guest network.
• Configured both policy-based and route-based VPN tunnels for Juniper-Juniper and Juniper-Cisco environments using traffic selectors on SRX1500.
• Configured 60+ Extreme switches (x440, x450, x670) with Stacking, LACP, VLAN, LLDP, ELRP, VOIP, SNMPv3, MLAG, DHCP snooping.
• Designed, Configured and Troubleshooted NAC Engines for Enterprise RADIUS authentication using SSL/TLS Machine Certificates and integrated with Active Directory to set Roles depending upon AD Attributes.

- Managed AD security groups and enforced required 802.1x LAN/WLAN settings through group policies.
- Monitored and remediated various security vulnerabilities in the network through Access control lists, installed Sophos AV for Firewall, Digital guardian to prevent data theft in Windows systems.
- Diagnosed and Resolved various issues with VLAN, STP, Trunk, and IP subnet issues through a ticketing system.
- Coordinated an Office and Datacenter migration by setting up core network infrastructures - Designed, Configured and Tested the Core switches, SAN networks, Corporate Firewalls, WiFi APs for the new environment well in advance to reduce the downtime.

National Institute of Technology Karnataka
Software Engineer : Summer Intern
May 2017 - July 2017 (3 months)
Mangalore Area, India

• Developed a proprietary communication protocol to diminish the probability of error and time delay in the data link layer by improving coding techniques with mathematical and programming competency
• Integrated and Implemented CRC, Cryptographic Hash functions, ARQ and Hybrid schemes on the internal network infrastructure to analyze data integrity and optimal efficiency and achieved 85% more reliable error-free high-speed data transmission
• Created reusable code in python to replicate network environment and automated the configuration process for more than 500 devices. Scripted to apply dynamic ACL on device interfaces.

Bharat Sanchar Nigam Limited
Under Graduate Intern
July 2016 - July 2016 (1 month)
Chennai Area, India

During my association with BSNL, I was responsible to determine and implement methods, process improvements to enhance network capability and examined load patterns for Chennai (metropolitan city) to increase service yield. I was also responsible for examining the interoperability of several Internet Security Protocols over VVOIP to void intruders

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Education

Northeastern University

Master of Science - MS, Telecommunciation Networks · (2018 - 2020)

Anna University
Bachelor of Engineering (B.E.), Electrical and Electronics
Engineering · (2014 - 2018)