

ASHWIN CHANDRASEKARAN

Systems Test Engineer Intern



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SUMMARY

Seeking a challenging position in networking where I can utilize my expertise in network protocols to enhance the quality and performance of networking solutions. Committed to continuous learning and contributing to innovative projects that drive organizational success

EXPERIENCE

- **Systems Test Engineer Intern** 05/2024 - Present
Arista Networks Santa Clara, US
 - EOS features testing for high throughput, low latency Broadcom STRATA devices like Trident and Tomahawk
 - Collaborating with developers and systems engineer to understand the feature and customer use case
 - Testbed creation for functional, feature, and scale tests
 - Working on protocols like BGP, VXLAN, EVPN, MLAG, ECMP, TCAM, etc., utilizing Arista's cutting-edge network devices, and traffic generators like Ixia
- **Associate - Automation Test Analyst** 01/2020 - 07/2023
Cognizant Bangalore, IN
 - Designed and managed automation suites using Java, Selenium, TestNG, Maven, MySQL, KARATE for robust system testing and defect tracking via Jira
 - Led QA for a data containerization project, automating XML conversions and authoring detailed test plans for seamless insurance form testing
 - Rapidly advanced from Programmer Analyst Trainee to Associate within 3 years, cultivating expertise in machine learning and Python for chatbot development

PROJECTS

- NAutoHUB** 01/2024 - Present
 - Developed my own Network Management and Automation System (NMAS) tool for POC virtual lab testing.
 - Leveraged Netmiko for Python-based network automation on Containerlab architecture.
 - Built a web app with Flask, InfluxDB, and Grafana for network management.
 - Implemented CI/CD pipelines using Jenkins for automation.
 - Automated Layer 2, Layer 3, and DHCP configurations.
 - Integrated tools for IPAM, show command outputs, and difference comparisons, etc.,
- The Star Wars Datacenter** 10/2024 - 12/2024
 - Designed a secure, redundant datacenter for the Death Star, for seamless remote control and fault-tolerant networking.
 - Configured Dot1x, VACL, QoS, OSPF, and BGP for inter-device communication.
 - Implemented VPC, MLAG, GLBP, and load balancing for redundancy.
 - Ensured fault-tolerant VM networking with NAS-backed shared storage on ESXi hosts.
- Virtual Colorado Zoo** 03/2024 - 05/2024
 - Configured a network lab using Cisco Catalyst 2960 switches and Cisco 1800/3825 routers to simulate a zoo environment.
 - Implemented DNS, DHCP, VLANs, OSPF, EIGRP for seamless interconnectivity.
 - Deployed VRF, HSRP, and IP SLA for dynamic routing and failover support.
 - Ensured network security with Port Security and NAT/PAT configurations.
- ScheduleGenius** 09/2023 - Present
 - Developed a full-stack schedule planner using machine learning to optimize task management for students and professionals at CU Boulder.
 - Utilized React, Restful API, GCP VMs, PostgreSQL, Docker, Kubernetes, and TensorFlow (RNN model) for backend, database, and frontend development.
 - Optimized time management and scheduling through machine learning.

EDUCATION

- Master of Science - Electrical and Computer Engineering (Computer Networking)**
University of Colorado Boulder
08/2023 - 05/2025 Boulder, US
- Bachelor of Technology - Electronics and Communication Engineering**
Amrita Vishwa Vidyapeetham
06/2016 - 06/2020 Coimbatore, IN

COURSEWORK

Datacenter and Enterprise Networks, Network Management and Automation (Foundation and Advanced), Network Systems, DataCenter Scale Computing

TECHNICAL SKILLS

VLAN · VTP · STP · SPAN · SVI · BVI · PortChannel · ARP · DHCPv4 · DHCPv6 · DNS · VRF · FHRP · RIP · OSPF · EIGRP · BGP · MLAG · EVPN · VxLAN · ECMP · NAT · PAT · SNMP · NMAS · ZTP · SSH
Python · Java · C++ · JavaScript
Ixia · Flask · Jenkins · Hadoop · Karate · Selenium · MySQL · Postgres · InfluxDB
Netmiko · Scapy · NAPALM · Grafana · Prometheus · Docker · Kubernetes · Maven · Jira · Git · Wireshark · Basic cloud technologies

HOBBIES

Guitar, Soccer, Boxing, Sketching, Gaming