Venna Venkata Siva Reddy

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# Objective

Network Engineer with hands-on experience in network operations, backend development, and system automation. Currently working at Cisco with CCNA certification and a strong foundation in TCP/IP, routing, switching, and Linux system administration. Passionate about building scalable, secure, and reliable systems..

# Technical Skills

* Networking: TCP/IP, ARP, OSPF, BGP (basics), VLANs, ACLs, IP Tables, NAT, Routing & Switching
* Programming & Scripting: Python, Shell, Java, C, C++
* Operating Systems: Linux (Ubuntu/CentOS), Windows
* Tools & Platforms: Wireshark, Cisco Packet Tracer, Git, REST APIs, GNS3
* **Tools & Technologies:** Git, DevOps, Automated Testing Tools (Axe, WAVE), Shell Scripting, Continuous Integration (CI/CD)
* Backend & Databases: Spring Boot, SQL, MongoDB, IBM DB2

# Experience

## Cisco Systems – Software Engineer Trainee

Aug 2024 – Present

* Monitored and supported enterprise-level networks to ensure high availability and low latency.
* Developed and secured REST APIs for internal network automation tools using Java and Spring Boot.
* Performed packet analysis and network issue resolution using Wireshark and CLI tools.
* Assisted in policy configuration and security assessments (ACLs, NAT, IP Tables).
* Scripted automation for log parsing, configuration backups, and monitoring using Python and Bash.

## Cognizant Technology Solutions – Trainee

Nov 2023 – May 2024

* Trained in IBM Mainframe environments (z/OS, JCL, COBOL, DB2) and enterprise system workflows.
* Contributed to process automation in legacy systems to enhance performance and reduce manual effort.

# Projects

## IoT-Based Continuous Abiotic Factor Monitoring

Java, React, Arduino

* Designed and implemented a real-time monitoring system for environmental parameters.
* Integrated hardware (sensors) with backend and created dashboards for visualization.
* Employed secure data transmission protocols and alert mechanisms for anomaly detection.

# Certifications

* Cisco Certifications

Cisco Certified Network Associate (CCNA)  
[Verify Credential](https://cp.certmetrics.com/cisco/en/public/verify/credential/3205dd780df84df493ac0ae3b4b4e68e)

Cisco Certified Cybersecurity Associate (CCCA)  
[Verify Credential](https://cp.certmetrics.com/cisco/en/public/verify/credential/7d344b346a6c4351846c564bb5d8e79e)

* Microsoft Certified: Security, Compliance & Identity
* Currently pursuing: Cisco Certified DevNet Associate (DEVASC)

# Education

Sir M Visvesvaraya Institute of Technology, Bengaluru

Bachelor of Engineering (B.E.) – Electronics and Telecommunication Engineering

# Honors & Publications

* Research Paper: “IoT-Based Continuous Abiotic Factor Monitoring” – IJFMR, May–June 2023