# SHIVANI YADAV

Software Engineer III

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## EDUCATION

**North Carolina State University** Master of Science / Computer Networking (CGPA: 3.5/4)          May 2021

**Vellore Institute of Technology** Bachelor of Technology / Computer Engineering (CGPA: 8.6/10)          May 2017

## TECHNICAL SKILLS

- **Programming Languages:** Python, JavaScript, TypeScript, Bash, Shell, C, SQL
- **Network Automation and SRE Tools:** Ansible, Jenkins, Playwright, Jest, GitHub Actions, ServiceNow, Jira
- **Cloud and Infrastructure:** Docker, AWS (EC2, S3, Lambda, CodeBuild, CodePipeline), Pulumi, GCP, Server Virtualization, Containerization, GitHub Copilot
- **Monitoring:** Grafana, Amplitude
- **Frontend:** React, Redux, Angular, HTML5, CSS3
- **Backend:** Node.js, MongoDB, InfluxDB
- **Networking:** TCP/IP, Routing, Switching, Load Balancing, OSPF, BGP, MPLS, VPN, DNS, DHCP, NAT, SDN, NFV, Edge Computing

## WORK EXPERIENCE

### Cisco Systems                                                                                                          October 2021 - Current

**Software Engineer III**                                                                                          October 2022 - Current

Frontend developer for Webex.com (130M+ active users)

- Built and launched key features like in-meeting file sharing, whiteboards, AI meeting summaries, meeting lobby, and audio options menu.
- Served as SME for builder automation, streamlining Node.js and Yarn upgrades across all build and test environment systems, improving CI/CD reliability.
- Implemented feature gap handling for Webex Public Sector Foundation to ensure compliance by restricting non-allowed features.
- Reduced "join meeting" failure rates by 4× through targeted bug fixes.
- Enhanced logging and telemetry in web client and SDK by adding detailed Grafana and Amplitude metrics, improving monitoring and issue tracking.
- Designed and deployed Jenkins pipelines for automated E2E testing on enterprise customer orgs like Apple.

**Software Engineer II**                                                                                          October 2021 – October 2022

- Engineered and assessed AWS CodeBuild and AWS CodePipeline infrastructure to transition to a more efficient continuous deployment system.
- Automated AWS Lambda deployments by integrating Pulumi commands into CodeBuild workflows, provisioning and deploying application code as part of CI/CD pipelines.
- Developed an automation tool for secure rotation of common identity passwords for web-auth APIs leveraging Ansible, Python and vault APIs — in production for 2+ years.
- Built password management tool for secure storage and updating of password, and facilitated the injection of these credentials into respective services during the jenkins build process.

**Software Engineer Intern**                                                                                          May 2020 – August 2020

- Developed backend configuration files for multi-SSID authentication on wireless APs (IEEE 802.11) for IR829 routers, deployed via the Rainier cloud gateway management platform using Apache FreeMarker.

### Environmental Systems Research Institute (ESRI)                                                                          January 2021- October 2021

**Network Automation Engineer**

- Created Ansible-Playbooks for configuration management and monitoring of network infrastructure at ESRI. Automated deployment of Playbooks using GIT webhooks and Ansible tower.
- Trained network admins on network automation using Ansible and Python.

### Tata Communication Limited                                                                                          July 2017 - May 2019

**Platform Planning and Design Engineer - Data Center Networking**

- Led development of an automated SD-WAN monitoring solution with influxDB and Grafana, streamlining service health checks, fault detection, and stakeholder alerts, improving customer satisfaction and reducing operational costs.
- Implemented traffic engineering methods for SD-WAN by configuring adaptive QoS policies and implementing features like: traffic steering, packet replication, and packet stripping which improved network performance despite packet losses by 80%.
- Automated network monitoring of Global Virtual Private Network (GVPN) by designing a database which stores, updates and plots link connectivity information and other important KPI metrics of all backbone routers on a Grafana dashboard.