

Adrian Martin

Network Engineer

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❖ SUMMARY

Results-driven Network Engineer with 11+ years of software development experience, specializing in network architecture, data center solutions, and migration strategies. Adept at leveraging Arista Fabric, Cisco platforms, and automation for innovative network designs.

❖ SKILLS

- **Networking Technologies** : Arista Fabric, Cisco IOS, Cisco NX-OS, VXLAN, VRRP, CloudVision, EOS, Network Automation, Data Center Architecture
- **Protocols & Configurations** : MSD, Routing, Switching, High Availability, Layer 2 Switching, Layer 3 Routing, Spanning Tree Protocol, BGP
- **Migration Tools** : NDFC, Ansible, Python, REST APIs, Configuration Translation, Feature Mapping, Hybrid Network Solutions, Migration Runbooks
- **Monitoring & Management** : Network Monitoring, Network Lifecycle Management, Root Cause Analysis, Performance Optimization, Operational Support Guides, Documentation, Design Documentation, Collaboration Techniques
- **Certifications & Standards** : CCNP Data Center, CCIE, Arista ACE, IEEE Standards, ITIL Principles, ISO Compliance, Best Practices for Network Design, Cloud Networking
- **Development & Automation Tools** : GitHub, Jenkins, Docker, Kubernetes, Terraform, Meraki, Zabbix, Grafana

❖ EDUCATION

Florida International University, Miami, FL – *Master's Degree in Computer Science*

Sep 2014 - May 2017

Florida International University, Miami, FL – *Bachelor's Degree in Computer Science*

Sep 2009 - May 2013

❖ EXPERIENCE

Luxevision Consulting, Lawton, OK – *Network Engineer*

07/2017 – Present

- Designed and implemented **Arista Fabric** deployments, optimizing network throughput and reliability for large-scale enterprise clients while ensuring compliance with industry standards.
- Leveraged **Arista EOS** and **CloudVision** to automate network monitoring and lifecycle management, achieving greater operational efficiency across multiple client environments.
- Executed comprehensive **Arista to Cisco migration** projects, translating configurations and features to ensure seamless transition and minimize downtime for enterprise networks.
- Configured and supported advanced **VXLAN** deployment tailored for multi-site data center environments, enabling enhanced scalability and enhanced interoperability with existing infrastructure.
- Led efforts to implement and maintain **VRRP** for high availability, supporting large-scale networks and ensuring service continuity through comprehensive configuration oversight.
- Utilized strong troubleshooting skills across hybrid **Cisco** and **Arista infrastructures** to optimize performance and resolve complex connectivity issues effectively and efficiently.
- Collaborated with cross-functional teams, fostering effective communication and teamwork to integrate network solutions smoothly into enterprise operational frameworks.

- Developed detailed design documents and operational guides for all migration and setup procedures, enhancing team understanding and support for network architecture.
- Conducted root cause analysis on network anomalies, leveraging analytical skills to enhance reliability and performance across multiple connectivity scenarios.
- Implemented monitoring frameworks using **Zabbix** and **Grafana**, allowing real-time insights into network performance metrics and status updates for rapid response initiatives.
- Trained and mentored junior engineers on **network design principles**, ensuring knowledge transfer and skill development within the team for long-term project success.
- Established best practices for network documentation to maintain compliance, improve process efficiency, and facilitate knowledge sharing within engineering teams.
- Participated in strategic datacenter design discussions, contributing insights on **Arista** and **Cisco architectures** to guide project direction and technology decisions effectively.
- Handled configuration and troubleshooting for multi-layer networks, enhancing system robustness while utilizing both legacy and modern technologies.
- Authored migration runbooks detailing step-by-step instructions for seamless **network transitions**, minimizing risk and ensuring thorough understanding of the migration process.
- Engaged with stakeholders to gather requirements and feedback on network infrastructure, solidifying operational alignment with business objectives and capabilities.
- Evaluated and implemented key performance metrics to engage stakeholders in understanding network efficiencies, fostering a results-oriented environment.
- Executed configuration troubleshooting to maintain network operational integrity, leveraging expertise in **Cisco VRRP** and advanced routing protocols for optimal performance.
- Optimized network hardware installations by designing layout according to capacity needs, ensuring sufficient space and structure for large-scale data center operations.
- Developed automated deployment scripts in **Python** for faster and more reliable network configuration processes, enhancing overall responsiveness of engineering operations.

Google, Madison, WI – Senior Software Engineer

07/2013 – 06/2017

- Designed, installed, and configured **NDFC** to streamline the management of Cisco networking devices, enhancing data center operations and administration efficiency on a large scale.
- Managed comprehensive migrations from **Arista** to **Cisco IOS/NX-OS**, crafting detailed configuration translations and documentation to ensure strategic project execution and closure.
- Collaborated with engineering and operations teams to deploy **VXLAN EVPN** solutions that enhanced scalability and trunking capabilities across diverse environments.
- Conducted high-availability configurations using **VRRP**, ensuring consistent uptime and reliability while supporting both vendor-specific and vendor-neutral environments.
- Utilized automation tools like **Ansible** for orchestrating network tasks, significantly reducing manual intervention and execution errors during routine operations and deployments.
- Engaged in advanced routing and switching tasks, ensuring that all network layers and protocols function seamlessly within a multi-vendor framework for optimal resource utilization.
- Analyzed data center architecture to recommend enhancements, supporting growth strategies while maintaining high standards of operational excellence in network performance.
- Facilitated vendor negotiations and partnerships to integrate **Cisco** and **Arista** technologies into existing infrastructures, ensuring intelligent design and effective usage.
- Developed comprehensive training documents and materials for onboarding new team members, aligning with organizational skills development and productivity objectives.
- Evaluated current network environments and proposed modifications to meet evolving technological requirements in cloud-based architectures and services.

- Partnered with teams to validate network configurations through rigorous testing procedures and quality assurance methodologies, ensuring robust performance under varied traffic scenarios.
- Maintained up-to-date knowledge of industry trends and software development practices including **Cloud Networking** technology shifts to recommend proactive and strategic approaches.
- Authored design documents for new installations, providing clarity and direction for future engineering initiatives and operational processes.
- Participated in the integration of monitoring tools to enhance infrastructure visibility, leveraging platforms like **Meraki** to bolster network security and performance monitoring.
- Integrated routing protocols across diverse networking environments, ensuring effective communication and resource sharing between devices in extensive setups.
- Executed compliance assessments and risk analysis for network changes, implementing proactive troubleshooting measures to avert operational disruptions.
- Conducted peer reviews of designs and configurations to ensure adherence to best practices and industry standards for enhanced reliability.
- Participated in cross-functional design reviews to gather insights and foster inclusion of varied perspectives, ensuring all network solutions address critical needs and considerations.
- Streamlined documentation practices leveraging automated templates and reporting tools, significantly improving team alignment on project timelines and objectives.
- Championed vendor management and performance assessments, ensuring suppliers of **Cisco** and **Arista** technologies uphold high-performance standards and compliance with established agreements.
- Identified opportunities for innovative solutions through thorough assessments of existing configurations, fostering continuous enhancements in network operations and architecture.