

AARON BRITTON

NETWORK & AUTOMATION ENGINEER

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PROFESSIONAL SUMMARY

Highly skilled Network Engineer with over a decade of experience in designing, implementing, and maintaining complex telecommunications infrastructures. Proven track record of leading large-scale network upgrades, standardizing configurations, and deploying automation tools to enhance efficiency and reduce downtime. Expertise in working with Cisco technologies, scripting with Python and utilizing DevOps methodologies to streamline operations. Adept at managing and mentoring teams, developing comprehensive documentation and ensuring seamless customer support.

EXPERIENCE

Network Automation Engineer

Network to Code, New York, NY | April 2022 – Present

Specialize in network automation and orchestration, leveraging tools such as Python, Ansible and Nautobot to implement and manage automation solutions.

- Deployed and managed a Network Source of Truth (Nautobot) for various customers using Ansible.
- Developed Python scripts to collect data and produce reports in Markdown.
- Created custom UI extensions within Nautobot using Python and Django.
- Developed Python scripts to deprovision customer devices.
- Utilized pynautobot and Django ORM within Nautobot to populate network data.
- Created and maintained detailed documentation using Confluence, Markdown and Draw.io.
- Created High Level Designs (HLDs) for deployments of Nautobot.
- Authored internal how-tos and getting started guides.
- Simplified data retrieval processes by replacing REST API queries with GraphQL queries.
- Developed Ansible playbooks to backup and restore PostgreSQL, integrate GitLab environment variables into Nautobot, etc.
- Contributed to internal repositories and open-source projects such as TextFSM templates, Nautobot, etc.

Network Engineer - Tier 3 FAA Telecommunications Infrastructure

L3Harris Technologies, Melbourne, FL | September 2017 – April 2022

Responsible for building and maintaining the FAA Telecommunications Infrastructure as well as leading the effort in standardization and utilizing automation Tools to decrease errors, downtime and man hours of repeatable tasks.

- Led the upgrade, replacement and documentation of new Cisco Catalyst 9200s to aggregate server clusters supporting multiple telemetry tools in 24 data centers.
- Led the upgrade, replacement and documentation of 48 new Cisco ASR1001X backbone aggregation routers to support over 1,000+ remote sites.
- Authored and standardized configurations of new FAA connections.
- Authored and deployed more than 24 policy scripts to audit and automate any configuration changes required in the network as the Cisco Prime Infrastructure SME.
- Authored and deployed Python scripts to backup Cisco ASR 9904s and to create a seed file for Cisco On-Prem utilizing the CPI API.

EDUCATION & TRAINING

Bachelor of Science

Purdue University

2010 - 2012

Associate of Science

Purdue University

2001 - 2004

100 Days of Code: Python

Dr. Angela Yu

The Ultimate Django Series

Mosh Hamedani

CERTIFICATIONS

Juniper Networks Certified Internet Associate

Dec 2019 – Dec 2022

Cisco Certified Network Professional

Feb 2016 - Feb 2019

Cisco Certified Design Associate

Nov 2014 - Feb 2017

Cisco Certified Network Associate

Mar 2014 - Mar 2017

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NETWORK & AUTOMATION ENGINEER

AUTOMATION & DEV

Python
Ansible
Docker
Docker-Compose
Git
Jinja2
API
GraphQL
Linux
Telegraf|Prometheus|Grafana

NETWORKING

Routing
Switching
Netflow
Syslog
SNMP
DMVPN
IPSEC
VRF

EXTRA

L3Harris R.I.S.E. Award
ASR 1001-X Tech Refresh Migration
2021 – L3Harris FTI

L3Harris R.I.S.E. Award
CPI Automated NAS Updates
2020 – L3Harris FTI

L3Harris R.I.S.E. Award
Standardized NAS Configurations
2020 – L3Harris FTI

EXPERIENCE -CONTINUED-

Network Engineer – Tier II Operations Team Lead

Harris Corporation, Melbourne, FL | November 2015 – April 2017

Responsible for developing documentation, testing equipment and training Tier 1 as well as Tier 2 teammates on the inner workings of the network. Responsible for being the primary escalation point from Tier 1.

- Configured and implemented the turn-up of new customer sites and services into the backbone using T1 and ethernet connections alongside LTE DMVPN failover handoffs with a 95% success rate while mitigating impact to existing customers.
- Primary lead that performed and delegated code upgrades for all Cisco platforms.
- Maintained a 97% accuracy rating when reviewing all change management requests for network changes on Harris customer networks.
- Implemented customer bandwidth upgrades to DS3, fiber and ethernet handoffs.
- Tested network changes, new equipment and equipment upgrades in a lab environment prior to production implementation.
- Developed and maintained Wiki/SharePoint articles, job aids and troubleshooting guides.

Network Engineer – Tier 1 Operations & NOCC Team Lead

Harris Corporation, Melbourne, FL | April 2013 – November 2015

Responsible for direct customer interaction, working with Telco's, working maintenance's and break/fix tickets.

- Sustained technical assistance among all team members and resolved issues as an escalation point prior to Tier II.
- Reviewed all daily incidents for accuracy, corrected fault isolation mistakes, developed repair action plans and reduced time to repair issues.
- Trained and coached 8 new NOCC team members.
- Developed training and procedures for current and incoming team members.
- Interfaced with the customer by fielding service calls, identifying concerns and logging issues.
- Monitored, analyzed and troubleshot network problems within an operations center utilizing network management and monitoring tools such as SNMPC, Solar Winds Orion, Manage Engine Netflow and CA Spectrum Suite.
- Troubleshot WAN/LAN technologies such as Ethernet, IP, Frame Relay, MPLS, ATM, BGP, OSPF, QoS, and Circuit Emulation.
- Worked with local exchange carriers, transport carriers, internal and external groups as needed to resolve network issues.
- Remotely worked with onsite technicians and telecommunication partners to resolve network problems.