

# BHONANDH SAI KANDRU

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## PROFESSIONAL SUMMARY

Enterprise Network Engineer with progressive experience building, programming, and maintaining resilient global network backbones. Proven track record supporting mission-critical enterprise environments, driving toward **5-9s (99.999%)** availability across high-density LANs and wide-area networks (WANs), Responsible for performing network design & analysis of existing and new architectures, routing and restoration approaches: developing systems specifications, technical implementation plans and coordinating complex installation projects.

## TECHNICAL SKILLS

**Networking Protocols:** TCP/IP, DNS, VPN, IPv4/IPv6, QoS, STP, HSRP, LACP, SIP, VLAN/VTP, BGP (eBGP/iBGP), OSPF, EIGRP, MPLS (L3VPN).

**Platforms & Hardware:** Cisco IOS/Nexus/ISR, Cisco ASA, Aruba Switching, Aruba WLC/Access Points, Clearpass, VMware ESX, Windows Server.

**Automation & Development:** Python, Ansible, SD-WAN, tcpdump, Wireshark, NetFlow, SNMP, Syslog, SolarWinds, ServiceNow.

**Security & Compliance:** Firewall Policies (Palo Alto), ACL, ZTNA, RADIUS/NPS, IDS/IPS, VLAN Isolation, ITIL, Incident Response, SOX, PCI-DSS.

**Cloud & Data Tools:** Azure (VNet, NSG, Bicep, IaC, Hybrid Connectivity), Zero Trust, Power BI, Visio, NGFW Concepts, RCA Analysis.

## PROFESSIONAL EXPERIENCE

### Network Administrator I

Jan 2026 – Present

Seminole Hard Rock Hotel & Casino, Tampa, FL

- Design and operate Cisco Catalyst/ISR LAN/WAN infrastructure across a high-density, multi-floor campus, managing IDF/MDF/data center Layer 2/3 segments, VLAN architecture, VTP, QoS policies, and fiber backhaul to maintain 99.99% uptime for mission-critical revenue operations.
- Monitor end-to-end network health and manage alert triage using SolarWinds and Syslog telemetry, tuning threshold parameters to minimize false positives, isolate anomalies, and improve incident response efficiency by 40%.
- Administer a security-first framework by maintaining Palo Alto firewall policies and endpoint security configurations, deploying secure IPsec site-to-site and SSL remote access VPN tunnels under strict SLA response timelines
- Operate and troubleshoot Aruba Mobility Controller, Access Point fleet across a multi-floor enterprise campus managing controller configuration, AP provisioning, SSID policy, and WMS monitoring to sustain stable wireless coverage for 2,000+ concurrent clients across guest and staff.
- Partner with senior network engineers to deploy and optimize enterprise-class routing policies and SD-WAN solutions, utilizing policy-based traffic steering and complex BGP/OSPF configurations to ensure resilient, high-availability branch connectivity.
- Engineer Python orchestration scripts and deploy Gluware to automate firmware lifecycles, decreasing manual network audit times by 80% while establishing structured rollback validation workflows.

### Network Administrator Intern

May 2025 – Aug 2025

The Children's Museum of Indianapolis, Indianapolis, IN

- Executed a comprehensive multi-vendor Cisco-to-Aruba infrastructure migration, validating 802.1Q trunking, LACP, and core routing to ensure zero-downtime maintenance-window cutovers with detailed process and workflow documentation.
- Designed, installed, and configured 802.11 wireless networking equipment, integrating Cisco ISE and advanced network access control concepts to enforce secure, role-based segmentation across enterprise and IoT endpoints.
- Troubleshoot complex enterprise connectivity, telephone systems, and security system applications using Wireshark packet captures and traffic-flow logs to rapidly isolate and resolve operational anomalies during live infrastructure cutovers.
- Administered systems and virtual servers by hardening VMware ESXi vSwitch configurations and validating data recovery pipelines, ensuring the confidentiality, integrity, and availability of critical application data.

### Graduate Network Assistant

Jan 2024 – Dec 2025

Indiana State University, Terre Haute, IN

- Monitored OSPF routing stability, link utilization, and enterprise network health for 10,000+ concurrent users using SNMP and Syslog telemetry, preempting routing anomalies before user impact.
- Cut MTTR by 20% on tier 1 user reported issues by standardizing troubleshooting workflows for DHCP, DNS, TCP/IP, and 802.1X authentication, with Python diagnostic scripts integrated into the support process.
- Handled network and connectivity tickets for students, faculty, and campus operations through the campus ITSM queue under SLA driven response timelines.

## PROJECTS

### Network Config Drift Detector | Python, Netmiko, Difflib, SMTP, Git

Jan 2026

- Built a Python automation tool using Netmiko to SSH into 20+ devices, diff running configs against Git-tracked golden baselines via Difflib and deliver structured deviation reports via SMTP reducing manual audit time by 80% and establishing a continuous compliance validation pipeline.

### Smart Energy Meter Using IoT | Published Research, ICCS – SSRN – Elsevier

May 2024

- Designed and published an IoT-based real time energy monitoring system covering device-to-cloud communication, wireless connectivity, and network reliability across distributed endpoints leveraging MQTT protocol, real-time cloud dashboards, and remote control.

## EDUCATION & CERTIFICATIONS

### Master of Science, Computer Science

Dec 2025

Indiana State University | Terre Haute, IN

**Certifications:** Cisco Certified Network Associate (CCNA), Cisco Junior Cybersecurity Analyst, Security + (In Progress), Azure AZ-700