

RAJESH KONDA

NETWORK ENGINEER

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PROFESSIONAL SUMMARY

- Network Engineer with 3 years of experience supporting cloud-scale infrastructures, specializing in OCI, RDMA clusters, and high-performance networking.
- Deep hands-on expertise in large-scale network fabrics, including **Clos architecture**, low-latency RDMA, and high-throughput **AI/ML** workloads.
- Proven track record of using **Python scripting** and network programmability (YANG, NETCONF, OpenConfig) for automation and telemetry operations.
- Strong command over **routing protocols** (BGP, OSPF), IPv4/IPv6 dual-stack environments, **DNS/DHCP** configuration, and global connectivity troubleshooting.
- Experience working in **24/7 on-call rotations**, managing escalations, and executing **high-impact network changes** with safety and compliance adherence.
- Designed and implemented scalable **monitoring solutions with SNMP**, streaming telemetry, and real-time dashboards (Grafana, Prometheus).
- Collaborated with cross-functional teams including vendors, **TPMs**, and site operations for bug resolution, firmware testing, and hardware qualification.
- Delivered impactful automation to reduce manual workload, accelerate response times, and enhance operational readiness across global teams.
- Built data-driven alerting systems and **health check automation** for early anomaly detection and proactive infrastructure defense.
- Demonstrates clear documentation, ownership in incident resolution, and commitment to **driving excellence in network availability and performance**.

Technical SKILLS

- Programming Languages:** Python, Bash
- Networking Protocols:** TCP/IP, BGP, OSPF, IPv4, IPv6, DNS, DHCP
- Cloud & Infrastructure:** Oracle Cloud Infrastructure (OCI), Data Center Network Fabric Support
- Network Telemetry & Monitoring:** SNMP, Streaming Telemetry, Custom Python Collector Scripts, Alert Engineering
- Network Modeling & Programmability:** YANG, OpenConfig, NETCONF
- Automation & Tool Integration:** Scripted Automation, CI/CD Tooling, Support Tooling Integration
- Visualization & Dashboards:** Grafana, Prometheus (or similar metrics dashboards)
- Troubleshooting Tools:** Packet Analysis, Connectivity and Cabling Diagnostics, RCA Tools

WORK EXPERIENCE

CLOUD NETWORK ENGINEER

07/2025 – Present

COGNIZANT (Client -Nationwide)

- Assisted in deploying and maintaining **cloud-based network infrastructure** for multi-region clients hosted on **Oracle Cloud Infrastructure (OCI)**.
- Configured virtual networks, subnets, gateways, and routing tables to support customer application deployments in isolated cloud environments.
- Monitored cloud network **health using telemetry** and log tools; escalated alerts related to latency, **packet drops**, or DNS failures.
- Helped implement basic routing configurations using **BGP** and static routes across private cloud interconnects.
- Built **Python scripts to automate cloud resource** checks and generate network usage reports for the operations team.
- Participated in the setup of hybrid cloud environments with secure **VPNs and IPsec** tunnels between on-prem and OCI.
- Worked with security teams to validate **firewall rules, security groups**, and NAT gateway policies.
- Created **step-by-step guides and diagrams** for repeatable cloud network configurations and troubleshooting tasks.
- Followed change management procedures for **routing updates and reviewed rollback** plans with senior engineers.
- Learned and applied **OpenConfig and YANG models** for structured monitoring data across virtual and physical network layers.
- Assisted in root cause analysis of network connectivity incidents, working with OCI support and internal escalation teams.
- Built simple **Grafana dashboards to visualize VCN flow logs**, peering status, and bandwidth trends.
- Provided documentation and **support during compliance audits** to verify proper segmentation and access controls.
- Participated in **weekly reviews of network changes**, discussing lessons learned and operational impacts.

ASSOCIATE NETWORK ENGINEER

08/2024 – 07/2025

CLOUD MATRIX

- Supported the **deployment and monitoring of cloud networking** components for clients using **OCI** and hybrid infrastructure.
- Helped configure **Virtual Cloud Networks (VCNs)**, route tables, internet gateways, and NAT gateways for scalable app hosting.
- Worked on network health monitoring using **SNMP**, flow logs, and custom **Python scripts to track latency** and interface errors.
- Coordinated with infrastructure teams to resolve link failures and update BGP sessions between cloud edge routers and customer gateways.

- Participated in troubleshooting **DNS and DHCP** resolution issues in isolated tenant environments within OCI.
- Automated recurring tasks such as **public IP validation**, subnet health checks, and log exports using **Bash and Python**.
- Used **Grafana dashboards** to monitor peering connections, **bandwidth** usage, and dropped packet alerts across **VCNs**.
- Reviewed security rules and **route configurations before submitting** change requests for production environments.
- Collaborated with **senior engineers during incident** calls to capture logs and **validate failover configurations**.
- Supported **root cause investigations** for latent **spikes** and assisted in reviewing telemetry and syslog data.
- Documented common **troubleshooting steps, CLI commands**, and known issues in internal runbooks for new hires.
- Managed ACLs and security list configurations for **multi-tenant VCN** setups with minimal access overlap.
- Participated in **dry-run deployments to validate network** changes before live cutovers during change windows.
- Conducted basic **IPv6 testing in lab VCNs** as part of a team-wide dual-stack readiness initiative.

AMAZON WEB SERVICES (AMAZON) NETWORK SUPPORT ENGINEER

06/2021– 08/2022

- provided first-line **network support** for Amazon's internal cloud infrastructure, assisting with device monitoring, escalations, and documentation. Followed standard procedures and internal tools to assist with **BGP and OSPF** alert investigation and routing issue escalations.
- Helped run **basic Python scripts to collect interface** status, packet errors, and real-time device metrics.
- Monitored **RDMA-based fabric performance** metrics and supported troubleshooting alongside senior network engineers.
- Participated in planned maintenance **windows for firmware upgrades**, device reboots, and interface configuration changes.
- Documented procedures and **supported on-call engineers** with quick-response tasks during high-priority network events.
- Assisted in cabling and connectivity checks for **Clos-based data center** networks in remote collaboration with L1 field teams.
- Utilized dashboards to observe performance spikes, device downtimes, and interface-level errors using **Grafana and internal tools**.
- Followed predefined change plans and **validation checklists** to ensure compliance and network safety.
- Created incident tickets, **attached log evidence**, and worked with escalation teams for deeper troubleshooting.
- Helped configure and verify basic **DNS and DHCP** settings under guidance from senior engineers.
- Tracked recurring issues and contributed** documentation for internal runbooks and **troubleshooting steps**.
- Attended **weekly sync meetings with network engineering** teams to report on site status and review known issues.
- Practiced **OpenConfig model views** to understand structured **network telemetry collected** from active switches and routers.

EDUCATION

05/2024 University of Bridgeport Master of Computer Science

GPA: 3.47/4

05/2019 MLR Institute of Technology Bachelor of Technology (Electronic and communication engineering)

GPA: 8.07/10

CERTIFICATIONS

- Cisco Certified Network Associate (CCNA)- In Progress
- CompTIA Security+
- Cloud Technologies – AWS, GCP, Azure
- Certified Information Systems Security Professional (CISSP) – In Progress

ADDITIONAL SKILLS AND QUALIFICATIONS

- Risk Management:** Identifying, assessing, and mitigating risks in cloud and network infrastructure to ensure security and compliance.
- Incident Response Planning:** Developing and executing response strategies for network outages, security breaches, and system failures. **Disaster Recovery and Business Continuity:** Implementing backup and failover strategies to ensure high availability and resilience.
- Zero Trust Architecture:** Designing and managing Zero Trust security models to enhance access control and data protection.
- Network Performance Optimization:** Proactively monitoring and fine-tuning network infrastructure for efficiency and reliability.
- Automation & Scripting:** Utilizing Terraform, PowerShell, and Bash to streamline network configurations and deployments.
- Passion for Innovation:** Eager to explore and implement cutting-edge networking and cloud solutions for optimized performance.
- Team Collaboration:** Skilled in working cross-functionally with DevOps, security, and infrastructure teams to achieve business objectives.