

Rohan Marshall

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SUMMARY

Cloud network engineering leader with 11 years of experience building reliable connectivity across **AWS, hybrid, and on premises** environments. Leads architecture for multi account and multi region platforms supporting payment and banking workloads, with deep practice in BGP, **IP address management**, Transit Gateway, Direct Connect, PrivateLink, Route 53, firewalls, load balancing, segmentation, and PCI DSS controls. Guides technical direction through design authority, incident command, mentoring, hiring, and cross team influence. Builds reusable Python and Go automation with testing, code review, observability, safe rollout, and rollback practices. Connects transaction paths across product, network, and data layers, then turns findings into practical reliability, security, efficiency, and cost improvements. Brings clear judgment to technical debt, buy versus build decisions, and long range platform strategy.

EXPERIENCE

Lead Cloud Network Engineer

January 2023 - Present

Blue Harbor Payments

Miami, FL

Leads AWS and hybrid connectivity architecture for payment platforms, guiding design authority, **incident response**, automation standards, audit controls, mentoring, and cross team delivery.

- Set AWS connectivity architecture with **Transit Gateway, Direct Connect**, PrivateLink, Route 53, NAT, and firewalls.
- Guided design reviews that balanced routing, segmentation, resilience, maintainability, and cost for payment services.
- Built reusable **Python** and Go modules with tests, review gates, rollback paths, and clearer ownership.
- Commanded incidents by tracing transactions across product, network, and data layers for faster root cause isolation.
- Defined network SLAs, telemetry, route health checks, and **PCI DSS** evidence for audit readiness.
- Mentored senior engineers through **BGP** troubleshooting, hiring panels, design reviews, and platform decisions.

Senior Network Platform Engineer

March 2020 - December 2022

Crescent Commerce Systems

Atlanta, GA

Owned multi region AWS foundations and connectivity simplification, leading platform consolidation, safe changes, incident analysis, segmentation, product evaluation, and audit preparation.

- Designed **multi region** AWS foundations with Transit Gateway, VPC routing, Direct Connect, PrivateLink, and **Route 53**.
- Consolidated duplicated connectivity into maintained modules and paved roads for private service access.
- Introduced staged route and firewall changes with health **monitoring** and fast **rollback** for safer releases.
- Led **root cause analysis** for BGP and load balancer failures across cloud and data center boundaries.
- Mapped **segmentation** and firewall controls to PCI DSS requirements, producing audit ready operating evidence.
- Compared managed networking products with internal builds using reliability, scalability, operating effort, and cost.

Network Automation Engineer

June 2017 - February 2020

Meridian Banking Technologies

Charlotte, NC

Automated network operations across banking data centers and AWS, improving change validation, fault isolation, telemetry, documentation, and engineer enablement.

- Automated router, switch, firewall, and IP address workflows with Python and testable tooling.
- Validated BGP neighbors, route propagation, address allocation, and firewall policy before planned changes.
- Diagnosed routing asymmetry, DNS, **NAT**, and capacity issues across data center and AWS connections.
- Created dashboards and alerts for circuit health, routing changes, and device availability.
- Documented standard network patterns and troubleshooting procedures for application and operations teams.
- Guided junior engineers through change preparation and reproducible fault isolation during service work.

Network Engineer

July 2015 - May 2017

Southeastern Digital Services

Raleigh, NC

Operated routing, switching, firewall, and load balancing platforms across two data centers, supporting resilient deployments, maintenance, troubleshooting, and automation.

- Operated routing, switching, firewall, and load balancing infrastructure across two production data centers.
- Configured BGP and **dynamic routing**, then validated convergence during scheduled maintenance windows.
- Managed IP address allocations and network records supporting application deployments and capacity planning.
- Diagnosed packet loss, asymmetric routing, and firewall policy issues with captures and device telemetry.
- Prepared reviewed changes with implementation, validation, rollback steps, and clear stakeholder communication.
- Built scripts for configuration checks and recurring operational reports, reducing manual review effort.

PROJECTS

Multi Region Connectivity Simplification 📅 2022

Replaced fragmented cloud connectivity patterns with reusable modules, clearer ownership, staged rollout controls, and practical operating guidance for platform teams.

Payment Network Observability 📅 2024

Connected transaction tracing, route health, circuit telemetry, and service indicators so engineers could isolate failures faster and support audit evidence.

Safe Infrastructure Change Framework 📅 2025

Established testing, review gates, feature controlled rollout, monitoring, and rollback practices for network automation and infrastructure updates.

LEADERSHIP & AWARDS

- Recognized by platform leadership for dependable incident command during a cross environment routing outage.
- Received engineering recognition for reusable network modules that simplified cloud connectivity delivery.
- Selected as a trusted mentor for senior engineer design reviews and BGP troubleshooting sessions.

EDUCATION

Bachelor's Degree in Computer Engineering

2015

North Carolina State University GPA: 3.8

Raleigh, NC

Coursework: Computer Networks, Distributed Systems, Software Engineering, Computer Architecture

CERTIFICATIONS

- Cisco Certified Network Professional 📅 2025
- AWS Certified Advanced Networking Specialty 📅 2024

TECHNICAL SKILLS

- **AWS Networking:** Transit Gateway, VPC, Direct Connect
- **AWS Private Connectivity:** PrivateLink, Route 53, NAT
- **Routing Protocols:** BGP, Dynamic Routing, Route Propagation
- **Network Infrastructure:** Routers, Switches, Load Balancers
- **Network Security:** Firewalls, Segmentation, PCI DSS
- **Automation Languages:** Python, Go, .NET
- **Infrastructure Code:** Reusable Modules, Testing, Code Review
- **Operations Practices:** Incident Response, Root Cause Analysis, Postmortems
- **Observability Systems:** Telemetry, Dashboards, Alerts
- **Change Management:** Feature Flags, Gradual Rollout, Fast Rollback
- **Address Services:** IPAM, DNS, Address Allocation
- **Connectivity Architecture:** Hybrid Cloud, On Premises, Multi Region

SKILLS

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|-------------------------|-----------------------------|------------------------|-----------------------|
| • Cloud networking | • Infrastructure automation | • Observability | • Root cause analysis |
| • BGP routing | • Python | • AWS networking | • Hybrid connectivity |
| • IP address management | • Go | • Network segmentation | • Cost evaluation |
| • Incident response | • PCI DSS | • Technical leadership | |

PROFESSIONAL AFFILIATIONS

- Member, Internet Engineering Task Force, contributing interest in routing and network operations standards.
- Member, Association for Computing Machinery, staying connected with software engineering practice and peer learning.

LANGUAGES

- English (Native)
- Spanish (Intermediate)

ADDITIONAL INFORMATION

Work Status : Authorized to work in United States. No sponsorship required.

REFERENCES

AVAILABLE ON REQUEST