

Adrian Beasley

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SUMMARY

Principal network architect with 17 years of experience leading global connectivity platforms, **large scale IP routing**, **network fabric** engineering, and reliability focused software development. Builds Python and Ansible automation, Kubernetes platforms, Source of Truth systems, **infrastructure as code**, and cloud native services that reduce operational toil and improve service reliability. Leads architecture for distributed routing, telemetry, observability, edge security, capacity planning, and cost control across complex infrastructure. Establishes **CI/CD pipelines**, SDLC standards, production safeguards, and practical review practices that support dependable delivery. Partners with engineering, security, and operations teams to translate changing requirements into scalable designs. Mentors architects and engineers through difficult decisions, helping teams deliver measurable business value through reliable, efficient network platforms.

EXPERIENCE

Principal Network Architect

January 2022 - Present

VectorMesh Networks

Austin, TX

Leads architecture for global routing, network fabric, automation, telemetry, observability, edge security, and reliability platforms. Guides senior engineers through design reviews, production decisions, capacity planning, and operational improvement programs.

- Architected global routing fabric with **Python** automation, improving repeatability across distributed connectivity services.
- Established **telemetry** and **observability** patterns that gave operations faster visibility into traffic and security conditions.
- Directed **edge security** platform improvements, reducing recurring **operational toil** through tested automation workflows.
- Led **capacity planning** reviews that aligned routing growth, service reliability, and infrastructure cost decisions.
- Mentored architects and engineers through design reviews, incident learning, and evolving platform requirements.
- Standardized architecture evidence and review records, improving stakeholder confidence in production network decisions.

Senior Network Software Architect

January 2018 - December 2021

CloudSpan Infrastructure

Seattle, WA

Directed network software programs spanning Python, Ansible, Kubernetes, **Source of Truth platforms**, CI/CD, and infrastructure as code. Connected software engineering discipline with **network reliability** goals, platform scalability, and controlled production delivery.

- Built Python and Ansible automation for routing changes, shortening repeatable delivery cycles across network services.
- Implemented **Kubernetes** based services that supported scalable network automation and controlled production operations.
- Integrated Source of Truth workflows with **infrastructure as code**, improving configuration consistency across distributed environments.
- Established **CI/CD** checks for network software, catching defects earlier before production deployment windows.
- Defined SDLC review practices that aligned engineers, operations partners, and security stakeholders around delivery quality.
- Guided cloud native **architecture** decisions that improved platform scalability without adding unnecessary operational burden.

Network Automation Engineering Lead

January 2014 - December 2017

MetroCore Internet Systems

Chicago, IL

Led engineering initiatives for routing automation, distributed network services, telemetry, and operational visibility. Coordinated delivery across software and infrastructure teams while improving reliability, repeatability, and response quality for production platforms.

- Scaled routing automation for distributed services, reducing manual intervention during recurring network changes.
- Created **observability** workflows that helped engineers isolate traffic conditions and service anomalies faster.
- Coordinated software and network engineers through release planning, validation, and production readiness reviews.
- Documented operational procedures that improved consistency across support rotations and change execution.
- Applied structured analysis to recurring incidents, guiding corrective work toward durable reliability improvements.
- Presented architecture findings and exception records, helping stakeholders prioritize risk and investment decisions.

Network Engineer

October 2009 - December 2013

Great Lakes Network Services

Detroit, MI

Engineered IP routing and network fabric operations for production connectivity services. Supported implementation, validation, troubleshooting, documentation, and cross functional coordination while building a foundation in scalable network engineering.

- Engineered **IP routing** changes across **network fabric** environments, improving service stability during planned maintenance.
- Validated network updates with structured testing, reducing avoidable production issues after implementation windows.
- Investigated routing incidents through operational data, restoring service and documenting corrective actions.
- Maintained configuration records that improved handoffs between engineering, operations, and support teams.

- Supported capacity reviews by translating traffic trends into practical infrastructure planning inputs.
- Coordinated change execution with cross functional partners, communicating exceptions before customer impact occurred.

PROJECTS

Global Connectivity Reliability Program 📅 2026

Directed a reliability program connecting routing automation, telemetry, edge security, and capacity planning. Created clear architecture decisions that improved operational visibility and supported efficient growth.

Cloud Native Network Automation Platform 📅 2024

Built a cloud native platform using Python, Kubernetes, Ansible, and infrastructure as code. Connected Source of Truth data with controlled delivery workflows for dependable network changes.

LEADERSHIP & AWARDS

- Received Principal Architecture Recognition for advancing global routing reliability and platform automation in 2025.
- Earned Engineering Leadership Award for mentoring network software teams and improving architecture review quality in 2023.
- Recognized for sustained contributions to operational visibility, routing automation, and production reliability in 2021.

EDUCATION

Bachelor's Degree in Computer Engineering

2009

Michigan State University GPA: 3.5

East Lansing, MI

Coursework: Computer architecture, computer networks, operating systems, software engineering

CERTIFICATIONS

- Certified Kubernetes Administrator 📅 2024
- Cisco Certified Internetwork Expert, Enterprise Infrastructure 📅 2023

TECHNICAL SKILLS

- **Programming Languages:** Python, Bash, YAML
- **Network Routing:** BGP, OSPF, IS IS
- **Network Fabric:** Data center fabric, VXLAN, EVPN
- **Automation Tools:** Ansible, Python, Jinja
- **Container Platforms:** Kubernetes, Docker, Helm
- **Source of Truth:** Network source of truth, structured inventory, configuration data
- **Cloud Infrastructure:** Cloud native infrastructure, virtual networks, distributed services
- **Infrastructure as Code:** Terraform, Ansible, Git
- **Observability Tools:** Telemetry, metrics, logs
- **Delivery Practices:** CI/CD, SDLC, automated testing
- **Security Systems:** Edge security, security services, access controls
- **Planning Methods:** Capacity planning, cost optimization, traffic analysis

SKILLS

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|--------------|-------------------|--------------------------|-----------------------|
| • Python | • Network fabrics | • SDLC | • Edge security |
| • Ansible | • Telemetry | • Cloud native | • Source of Truth |
| • Kubernetes | • Observability | • Infrastructure as code | • Network reliability |
| • IP routing | • CI/CD | • Capacity planning | |

PROFESSIONAL AFFILIATIONS

- Member, Internet Engineering Task Force, contributing practical insight on routing and network operations.
- Member, Association for Computing Machinery, sharing software architecture perspectives with technical peers.

LANGUAGES

- English (Native)
- Spanish (Intermediate)

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST