

MANIKANDESHWAR MANOHAR

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Professional Summary

Infrastructure and Platform Engineer with 7+ years of experience designing, deploying, and operating scalable systems across cloud and on-prem environments. Expertise spans Linux systems engineering, cloud-native infrastructure, CI/CD automation, and container orchestration using Kubernetes. Proven success in improving reliability, reducing incident response time, and enhancing observability in mission-critical environments. Currently targeting Site Reliability Engineer (SRE) roles to contribute to large-scale system reliability, performance tuning, and automation excellence.

RELEVANT EXPERIENCE

DevOps and Infrastructure Engineer – Intel

Jan 2023 – Present

- **Increased system resilience and storage efficiency** by expanding etcd database capacity by 3GB and implementing automated backup and configuration processes aligned with SLOs.
- **Eliminated manual toil** by designing GitHub Actions-based CI/CD pipelines and implementing infrastructure as code, reducing human error and improving deployment speed.
- **Boosted platform stability and resource efficiency** by deploying 6 RKE2 Kubernetes clusters with Calico and Istio, while migrating container runtimes from Docker to containerd.
- **Built internal tooling for dependency** management by launching a highly available Devpi repository integrated with S3 and NGINX.
- **Standardized server builds across environments** by fully automating the Linux provisioning lifecycle using Puppet and Ansible.
- **Enhanced observability and system performance** by deploying Prometheus to monitor Rancher clusters and NetApp Trident; conducted kernel-level tuning for Oracle databases.
- **Reduced MTTR** by leading root cause analysis efforts and implementing proactive alerting and monitoring strategies.

System Engineer III – Hughes Network Systems

Feb 2019 – Jan 2023

- **Maintained reliability for global production environments** by overseeing staging and deployment operations across 10+ satellite ground stations.
- **Automated configuration and alerting systems** using Python and Ansible, integrating HPE OneView with REST APIs to improve observability and reduce manual intervention.
- **Deployed and scaled monitoring platforms** by configuring HPE OneView to manage 5,000+ servers across 50+ global data centers.
- **Engineered bare-metal provisioning at scale** through custom PXE boot environments and initramfs scripting, accelerating infrastructure rollouts.
- **Streamlined virtualization operations** by management of VMware vCenter environments to enhance platform stability.
- **Architected high availability clusters** for critical traffic shaping systems using Sandvine devices, ensuring failover resilience and minimal downtime.

IT Specialist (Infrastructure) - Intellectual Point

Jul 2018 – Jan 2019

- **Automated system operations** by scripting recurring maintenance tasks and supporting the lifecycle management of internal services.
- **Managed network and mail infrastructure** to guarantee access to key internal platforms, contributing to a seamless office IT experience.

EDUCATION

Harrisburg University Of Science and Technology, Harrisburg , PA Master Of Science in Project Management	<i>May 2023</i>
George Mason University, Fairfax, Va Master of Science in Telecommunication	<i>May 2018</i>
Sri Krishna College of Engineering and Technology (Anna University), India Bachelor of Engineering in Electronic and Communication	<i>May 2016</i>

TECHNICAL PROJECTS

Chaos Engineering & Observability using EKS	<i>July 2025</i>
• Deployed a microservices application on Amazon EKS with ALB and Kubernetes Ingress for efficient traffic management. • Implemented observability tooling using Prometheus and Grafana; defined and tracked service-level objectives (SLOs) using PromQL. • Conducted chaos testing using Chaos Mesh and manual failure injection to assess system resilience and validate alerting accuracy.	
CI/CD Pipeline for Spring Boot Application on AWS EC2	<i>April 2025</i>
• Deployed a Spring Boot Pet Clinic app on AWS EC2 using Jenkins and NGINX as a reverse proxy. • Automated Maven-based builds and deployments through a Jenkins CI/CD pipeline. • Configured systemd services for application monitoring and auto-start.	
AWS VPC Tunneling with IPsec Across Regions	<i>October 2017</i>
• Created multi-region VPC networking using public/private subnets in Ohio and Mumbai. • Configured IPsec VPN tunnels between VGW and OpenSwan instances to enable secure communication between regions. • Tested inter-subnet connectivity using NAT gateways and adjusted security groups for region-level access control.	

TECHNICAL SKILLS

- Languages & Scripting: Bash, Python
- Infrastructure as Code: Ansible, Puppet
- CI/CD Tools: GitHub Actions, Jenkins, Maven, systemd
- Containers & Orchestration: Docker, containerd, Kubernetes, RKE2, Istio, Calico
- Monitoring & Observability: Prometheus, Grafana, HPE OneView
- Cloud Platforms: AWS (EC2, S3, VPC, Route 53, EKS, ALB, CloudWatch)
- Networking: Routing, Switching, VPN, DNS, MPLS, VLAN, BGP, IPsec
- Operating Systems & Virtualization: Linux (RHEL, Ubuntu), VMware vCenter

CERTIFICATES

- Certified Kubernetes Administrator – *In progress, Expected September 2025*
- Red Hat Certified System Administrator - *August 2017*
- Cisco Certified Network Associate (Routing & Switching) - *August 2016*

AWARDS AND RECOGNITIONS

- **Q2 2025 – TD ATA DRA (Division Impact):** Excellence in Rapid Response for patching VMware security vulnerabilities.
- **Q2 2024 – TD ATA DRA (Division Impact):** Accelerated server builds using Ansible, reducing provisioning time and improving deployment consistency.
- **Recognized by leadership and end customers** for embodying Intel's 'One Intel' and 'Customer First' values through operational excellence and collaboration.