

RAMSANJIEV VENKATESH

Software Engineer

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PROFESSIONAL SUMMARY

Systems-focused engineer with 4+ years of experience in infrastructure automation, systems design, and large-scale deployment and reliability engineering. Proven track record managing Kubernetes container orchestration, virtualized environments (KVM, VMware vSphere, OpenStack), and TCP/IP network troubleshooting across on-premises and air-gapped deployments. Skilled at building observability platforms, automating toil reduction, and partnering directly with customers to deploy and operate enterprise-grade infrastructure.

TECHNICAL SKILLS

- **Container Orchestration & Infrastructure:** Kubernetes, Docker, Helm, Infrastructure-as-Code, Ansible, Jenkins CI/CD
- **Virtualization & Hypervisors:** KVM, VMware vSphere, OpenStack, Cisco UCS Server Management
- **Networking:** TCP/IP, DNS, Load Balancing, Network Troubleshooting & Diagnostics, pyATS, Firewall Configuration
- **Storage & Data Systems:** MinIO (S3-Compatible Distributed Storage), NAS, Postgres, Kafka, NoSQL
- **Observability & Telemetry:** Prometheus, Grafana, Victoria Metrics, Loki, AppDynamics, Logging Pipelines
- **Programming & Scripting:** Python, Go, Shell Scripting (Bash), Java, JavaScript
- **Additional:** Active Directory, Linux Administration, Security Compliance, Agile, Customer-Facing Technical Support

WORK EXPERIENCE

Cisco Systems, Bangalore – *Software Engineer – DevOps / Systems* Mar 2022 – Present

- Architected and maintained Kubernetes-based container orchestration platform for 20+ microservices, automating deployment pipelines and reducing manual release effort by 80% across development and QA environments.
- Deployed and administered KVM, VMware vSphere, and OpenStack virtualized environments on Cisco UCS bare-metal servers, managing hypervisor lifecycle, resource allocation, and lab networking for cross-functional teams.
- Led network troubleshooting for on-premises infrastructure, resolving complex connectivity, routing, and issues across multi-tier application stacks using pyATS and custom automation tooling.
- Designed automated Geo-High Availability network simulations to validate infrastructure resilience before customer deployments, proactively identifying failure scenarios and reducing production incidents.
- Built end-to-end observability and telemetry stack (Prometheus, Victoria Metrics, Grafana, Loki) to instrument services, convert data into actionable insights, and reduce mean time to resolution (MTTR).
- Developed automated smoke-test pipeline validating infrastructure drops from multiple teams, catching integration defects early and cutting developer validation time by 50%.
- Created on-demand server provisioning and optical network simulation tools, eliminating 80% of manual hardware and topology configuration for engineering and QA teams.
- Enhanced CI/CD security posture by restructuring legacy pipelines, automating compliance checks, and implementing secure application integration across infrastructure components.
- Served as subject-matter expert for on-premises deployment troubleshooting, supporting customer escalations, partner deployments, and engineering documentation.
- Partnered with customers and internal stakeholders to understand technical requirements, translate needs into infrastructure solutions, and ensure successful on-site deployments.

Tata Consultancy Services (TCS), Chennai – *Systems Programmer* Aug 2020 – Mar 2022

- Engineered automated data pipeline using Adobe Analytics, reducing manual metrics collection and reporting effort by 50% and freeing 10+ hours weekly for the operations team.
- Designed and implemented monitoring dashboards with advanced visualizations, providing actionable insights into system performance and user-interface telemetry for enterprise clients.
- Configured metrics, filters, and alerting frameworks to support data-driven infrastructure and operational decision-making across enterprise client engagements.

EDUCATION

Vellore Institute of Technology | Vellore, India June 2020

Bachelor of Science in Computer Science