

SWATI ANEJA

DevOps Engineer • Kubernetes Specialist • AI-Augmented Automation

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CKA (Certified Kubernetes Administrator) **CKAD** (Certified Kubernetes Application Developer) **CCNA**

PROFESSIONAL SUMMARY

DevOps Engineer with 9+ years of experience in infrastructure engineering, CI/CD automation, Kubernetes orchestration, and VMware vSphere administration. Holds active CKA and CKAD certifications. Experienced in building LLM-powered multi-agent systems, MCP servers, and AI-driven automation workflows on GCP and AWS. Proven track record of reducing deployment times, managing large-scale virtual infrastructure, and delivering reliable, secure DevOps solutions.

PROJECTS

Kubernetes AI Operations Dashboard github.com/saneja1/K8s_AI_Project

- Built an LLM-powered multi-agent assistant backed by MCP servers and Kubernetes tooling on GCP to fetch cluster state, monitor health, and drive troubleshooting and optimization workflows
- Features automated host readiness validation, centralized VM health tracking, and real-time pod observability

Automated CI/CD Pipeline for Containerized Web Application github.com/saneja1/testjenkins

- Designed and implemented CI/CD pipeline using Jenkins, Docker, and Kubernetes to build, containerize, and deploy Python Streamlit applications to GCP with automated SCM polling and DockerHub integration, reducing deployment time from 2 hours to under 5 minutes

Infrastructure Automation with Terraform & Jenkins github.com/saneja1/terraform

- Designed Infrastructure as Code solution using Terraform to automate provisioning of GCP Kubernetes worker nodes
- Implemented Jenkins pipeline with security controls, manual approval gates, and automated Terraform workflows ensuring consistent infrastructure provisioning

ImageGuard – Secure Container Image Platform github.com/saneja1/IMAGEGUARD

- Engineered a Chainguard-inspired platform for automated secure container image building, vulnerability scanning, and lifecycle management with centralized registry management for enterprise environments

WORK EXPERIENCE

System Engineer | *State University of New York (SUNY) – Albany, NY*

May 2019 – February 2020

- Implemented Kubernetes for container orchestration; created clusters, pods, replication controllers, replica sets, services, and deployments
- Managed planning and execution of Kubernetes cluster upgrades using kubeadm and kubectl
- Designed CI/CD pipelines using Docker, GitHub, and Jenkins
- Deployed KubeVirt on GCP Kubernetes to unify VM and container management, migrating VMware workloads using virt-v2v
- Automated Kubernetes cluster operations using Ansible — worker node provisioning, namespace/RBAC/ResourceQuota setup, and VM inspection across GCP
- Provided primary support for VMware vSphere 6.5 virtualization infrastructure; led design resulting in 60% reduction in infrastructure costs
- Monitored and troubleshooted resource usage using VMware vRealize

System Administrator | *New York State ITS – Albany, NY*

April 2014 – May 2019

- Managed Docker containers, Kubernetes pods, replication controllers, and deployments
- Assisted in testing and setting up Kubernetes clusters on VMware vSphere platform
- Used Terraform to manage and automate infrastructure as code for AWS
- Monitored VMware vSphere 6.0 and 5.5 environments with 9,000+ virtual servers

- Performed datacenter migrations for multiple NYS agency compute workloads to central ITS datacenter with minimal downtime
- Managed patching of ESX/ESXi hosts and vCenter server using VMware Update Manager
- Performed P2V migrations of Windows and Linux physical servers using VMware Converter
- Led upgrade of VMware vSphere 4.1 environment to vSphere 5.0

System Engineer II | *MobileNet Services, Inc. – Irvine, CA* September 2010 – April 2011

- Managed and maintained VMware vSphere infrastructure ensuring high availability and performance of virtualized systems
- General systems administration on Linux servers including software deployments and installations

System Engineer | *Cingular / AT&T – Los Angeles, CA (Celcote Management Solutions)* August 2008 – February 2009

- Managed and administered VMware vSphere infrastructure including ESX 3.5/4.0, VMware Virtual Center 3.5/4.0, and Windows Server Active Directory

Engineer II | *T-Mobile USA – Concord, CA* October 2007 – July 2008

- Installation, configuration, and monitoring of VMware infrastructure (ESX 3.0 and Virtual Center) and VM provisioning

Intern | *T-Mobile USA – Chicago, IL* November 2006 – August 2007

Associate Engineer Intern | *AIRCOM International – Richardson, TX* June 2006 – August 2006

TECHNICAL SKILLS

AI & Agents Anthropic Claude API (Haiku, Sonnet), Google Gemini API (Gemini 2.0 Flash), Multi-Agent Systems, RAG, MCP Servers, GitHub Copilot, LangChain 1.1, LangGraph 1.0

Containerization & Orchestration Kubernetes (CKA/CKAD), Docker, Helm, Pod/Service management, KubeVirt

DevOps & CI/CD Jenkins, Terraform (IaC), Ansible, Git, Chef

Cloud & Virtualization GCP, AWS (EC2, S3, EBS, VPC), VMware vSphere 6.x/5.x, ESXi, vCenter, VMware Converter, Update Manager

Systems & Backup RHEL, Ubuntu, Windows Server, Veeam, NetBackup

Scripting Python, PowerCLI, PowerShell, VBScript, YAML, Bash

Monitoring Prometheus, Nagios, vCops, vROps

EDUCATION

Master of Science, Telecommunications Engineering Technology

Rochester Institute of Technology – Rochester, NY

Bachelor of Science, Electronics & Communication Engineering

Punjab Technical University – Punjab, India