PROFILE INFORMATION

Innovative and results-driven Platform Engineer with extensive experience in the IT industry. Proven expertise in designing and implementing highly scalable, resilient, and secure platform solutions. Passionate about leveraging cutting-edge technologies, DevOps best practices, and microservices architecture to drive application modernization and digital transformation. Adept at leading cross-functional teams, optimizing platforms, and ensuring security and compliance in complex enterprise environments.

- **System Design & Architecture** – Designing scalable, distributed, and fault-tolerant systems to meet business and technical requirements.
- **Virtualization Platform Design & Implementation** – Architecting and deploying virtualized infrastructure to optimize performance, scalability, and resource efficiency.
- **Cloud-Native Architecture** – Design and implementation of scalable, resilient, and secure cloud-native solutions.
- **Kubernetes Platform Deployment** – Expertise in container orchestration and cluster management.
- **DevSecOps Integration** – Implementing security best practices throughout the software development lifecycle.
- **Microservices & Containerization** – Designing and optimizing distributed systems using microservices and container technologies.
- **Software Supply Chain Security & Compliance** – Ensuring end-to-end security, governance, and regulatory compliance.
- **Internal Developer Platform Development** – Building self-service platforms to enhance developer productivity and operational efficiency.
- **Technical Leadership & Cross-Functional Collaboration** – Leading teams to drive innovation and strategic cloud adoption.

FORMAL EDUCATION

Bachelor of Engineering (Electronics & Communication)   [Jun 2002 – May 2006]

PG Diploma in Aeronautical Engineering   [Jan 2007 – Dec 2007]

IT CERTIFICATIONS

VMware Certified Master Specialist (Cloud Native)

VMware Certified Professional (Application Modernization)

VMware Certified Advanced Professional (Data Center and Network Virtualization)

Linux Foundation Certified Kubernetes Administrator

Linux Foundation Certified Kubernetes Security Specialist

HashiCorp Certified Vault Associate

Amazon AWS Certified Solutions Architect (Associate)

Cisco CCIE Certification (Routing & Switching & Service Provider)

Certified Information Systems Security Professional (CISSP)

WORK HISTORY

System Engineer, Indian Air Force	[Jul 2006 – Dec 2011]
Senior Systems Engineer, Indian Air Force	[Dec 2011 – Jul 2016]
Lead Consultant, British Telecom	[Aug 2016 – Jan 2017]
Solutions Architect, Cisco	[Feb 2017 – Nov 2019]
Senior Network Development Engineer, Amazon	[Mar 2020 – May 2021]
Senior Consultant Cloud Native, VMware	[Sep 2021 – Oct 2023]
Principal Systems Engineer, CBA	[Nov 2023 – Till date]

DEVOPS

Experience in build and release management processes

Experience with CI/CD pipelines (Jenkins, GitLab CI & GitHub actions)

Cloud Native CI/CD pipelines using Tekton

Deploy and operate Git SCM tools

Static Application Security Testing (SAST) using SonarQube

Security Vulnerability analysis using Fortify SSC

Deployment of Microservices using GitOps tools (FluxCD & ArgoCD)

Deployment and operation of Sonatype Nexus repository and Harbor registry

Configuration Management and IaC Tools (Ansible & Terraform)

Utilized Confluence to develop and update project documentation

Leveraging Jira for backlog management, and issue tracking

Deployment of IDP (Internal Developer Platform) using Tanzu Application Platform

KUBERENETES PLATFORM

Expertise in deploying and operating production grade Kubernetes clusters.

Life-cycle Management of Kubernetes Clusters with Cluster API (CAPI)

VMware Tanzu Kubernetes Grid, Tanzu Mission Control & Tanzu Application Platform

RedHat OpenShift Container Platform

Setup of Kubernetes access Management tools and enforce RBAC

Kubernetes CNI plugins (Weavenet, Calico, Antrea & Cilium)

Istio Service Mesh deployment

Ingress controllers and API Gateway deployment

Observability stack setup for Metrics, Logs and Traces (Prometheus, Grafana & Jaeger)

Implementation of Cloud Native security tools (OPA Gatekeeper & Kyverno)

Disaster Recovery, backup and restore using Velero

Implementation of S3-compatible object storage on-premises platform based on MinIO

SYSTEMS ADMINISTRATION

Expertise in deployment of multi-vendor Server Hardware (HP / IBM / Cisco / Dell)

Skilled in Windows and Linux server System Administration and Automation

Deployment and operation of Load balancers (F5 and VMware AVI LoadBalancer)

Deployment and operation of Microsoft Active Directory, DHCP & DNS servers

Deployment of logging and SIEM systems (Open source & Proprietary systems)

VIRTUALIZATION & AUTOMATION

VMware vSphere SDDC with NSX Network Virtualization

Software defined Storage virtualization using VMware vSAN and Ceph

Microsoft Hyper-V & Linux KVM

OpenStack private Cloud deployments

Programming Skills – Bash scripting, Python, PHP, JavaScript & Go

NETWORKING & SECURITY

Enterprise Campus LAN and WAN Technologies

Enterprise Datacenter Networking

Cisco Software Defined Access and SD-WAN deployment

Firewall, IDS/IPS and WAF deployments

Enterprise-wide Network Access Protection

KEY PROJECTS HANDLED

Led the design and deployment of a Multi-zone Tanzu Kubernetes Grid (TKG) cluster for a financial sector client, ensuring high availability (HA) to meet the business requirements.

Involved in comprehensive design and construction of a 5G Network Functions Virtualization Infrastructure (NFVi) cloud-native architecture for a telecommunications (Telco) customer. Delivered cutting-edge solutions tailored to the Telco industry's evolving needs, ensuring optimal support for their 5G network deployments.

Spearheaded initial engagement discovery, design, and deployment of production-grade Kubernetes clusters for clients, playing a pivotal role in launching their Cloud Native initiatives.

Orchestrated the design and implementation of Observability tools, including Prometheus, Grafana, ELK, and Loki, within the Kubernetes platform and microservices ecosystem. This initiative enhanced visibility and monitoring capabilities, empowering effective management of the infrastructure and applications.

Conducted rigorous testing and deployment of the Istio service mesh to augment security, traffic management, and visibility for Microservices applications hosted on Kubernetes clusters. Service mesh deployment had significantly fortified the infrastructure and improved operational oversight.

Executed the deployment and operation of Kubernetes clusters integrated with NVIDIA GPUs, specifically tailored to facilitate the seamless integration and efficient execution of machine learning workloads. This streamlined the onboarding process for ML tasks, enhancing computational capabilities.

Introduced GitOps based continuous delivery process by implementing ArgoCD. This greatly simplified the automated deployment and reconciliation of microservice applications in a declarative way to the Kubernetes cluster.

Implemented Kubernetes-native policy management tools, Kyverno and OPA Gatekeeper, to enforce configuration best practices and uphold security compliance standards. This initiative enhanced the robustness of our Kubernetes infrastructure.

Orchestrated the integration of HashiCorp Vault with Kubernetes clusters, establishing robust secret management capabilities to enhance security and access control within the environment.

Managed the deployment and operation of VMware vSphere Software-Defined Data Center (SDDC) infrastructure, ensuring the reliability and efficiency of our virtualized environment.

Led the design and deployment of enterprise applications with a strong focus on achieving High Availability (HA) and Business Continuity and Disaster Recovery (BCDR) capabilities, ensuring resilience and uninterrupted service delivery.

Design and deployment of an OpenStack cloud infrastructure tailored to meet the specific needs of the enterprise, enabling flexible and scalable cloud computing solutions.

Deployment of cloud-scale data centers, ensuring the scalability and efficiency necessary to meet the demands of modern cloud computing environments.

Automated PowerDNS Deployment via CI/CD – Engineered a fully automated pipeline to deploy and configure a PowerDNS solution, integrating DevSecOps best practices for security, compliance, and operational efficiency.

CI/CD-Driven Ceph Storage Provisioning – Designed and implemented CI/CD pipelines for automated provisioning, configuration, and scaling of Ceph storage clusters on OpenStack bare-metal infrastructure.

Security-Hardened RHEL SOE Image Pipeline – Developed a CI/CD automation framework to build, validate, and distribute security-hardened, enterprise-compliant Red Hat Enterprise Linux (RHEL) Standard Operating Environment (SOE) images.

PERSONAL DOSSIER

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