# SUJAN KARIMILLA

Senior Cloud/DevOps Consultant

Capgemini, Bengaluru.

Phone: **+91 8555042207**

Email: sujankarimilla@gmail.com

**Professional Summary:**

Results-driven Lead DevOps Engineer with 7.5 years of experience in cloud automation, Kubernetes orchestration, and CI/CD pipeline optimization. Expertise in AWS, Azure DevOps with hands-on experience in Terraform, Helm, ArgoCD, and DevSecOps methodologies. Passionate about improving deployment efficiency, system reliability, and security.

**Career objective:**

I am focused and determined on building a successful career in a company which gives me a creative and challenging position where I could use my skills to provide innovative solutions. I believe the fast paced, results-orientated environment will give me the challenge; I thrive on.

**Skills and Expertise:**

- **Technologies:** DevOps, Cloud, CICD, Docker, Kubernetes (EKS)
- **Cloud:** AWS, Azure DevOps
- **Monitoring Tools:** Grafana, Prometheus, Cloud watch, Kibana
- **Configuration tools:** Ansible,
- **Scripting Languages:** Shell/Bash, Python
- **Version control:** GIT, Gitlab
- **Operating Systems:** RHEL, Ubuntu, Windows
- **CICD:** Jenkins, Azure DevOps
- **Tracking Tools:** Jira, Azure DevOps
- **Infra Automation:** Terraform

# Professional Experience:

## Capgemini - Senior Consultant | May 2024 – Present

- **Cluster Management & Deployment**: Deployed and managed highly available Kubernetes clusters (EKS) using Terraform, ensuring security, scalability, and high availability. Implemented **Helm charts** for application packaging and deployment.
- **Monitoring & Troubleshooting**:
  - Implemented **centralized logging, monitoring, and alerting** using **Prometheus, Grafana, Kibana** for real-time visibility and initiative-taking issue resolution.
- **Kubernetes Objects**: Created and managed Kubernetes objects (pods, services, deployments, configmaps, secrets) and implemented Azure DevOps-based deployments via **Helm**.
- **Security & Compliance**: Configured RBAC roles, namespaces, authentication, and access controls to ensure compliance with organizational standards.

- **CI/CD & Automation**: Designed and implemented end-to-end **CI/CD pipelines using Azure DevOps** automating deployments across multiple environments. Enabled

**Blue-Green and Canary Deployments** for seamless rollouts and zero-downtime deployments.

- **Cloud & Infrastructure**: Experience with **AWS (EC2, EKS, Load Balancing, Lambda, VPC, IAM, CloudWatch)** using Terraform for infrastructure as code.
- **Multi-Cluster Deployments & Site Reliability Engineering (SRE)**: Handled **integration, development, staging, and production deployments** on **EKS** ensuring smooth application rollouts.
- **DevOps Automation & Hybrid Cloud Management:**
  - Automated **infrastructure provisioning, scaling, and configuration management** using **Terraform.**
  - Developed **self-healing infrastructure** with **auto-scaling, health checks, and automated failover mechanisms**.
  - Automated **secret rotation, backup policies, and cloud cost optimization strategies** to enhance efficiency.
- **DevOps Troubleshooting & Incident Management:**
  - Diagnosed and resolved container failures, networking issues, and Kubernetes cluster resource constraints.
  - Troubleshooting NodeNotReady, Pod evictions, CrashLoopBackOff, OOMKilled, and networking issues in Kubernetes environments.
  - Resolved issues with CI/CD pipeline failures, slow deployments, and rollback mechanisms.
  - Debugged infrastructure provisioning failures in Terraform ensuring consistent deployments.
  - Resolved cloud networking issues, such as VPC peering, DNS resolution failures, and IAM permission errors.
- **Networking & Security:** Configured VPCs, VPNs, VPC peering, security groups, IAM policies, and firewall rules to establish a secure cloud infrastructure.
- **DevOps Culture & Collaboration**: Led DevOps transformation initiatives by implementing best practices, automating workflows, and collaborating with cross-functional teams to improve release efficiency.
- **Containerization & Orchestration**: Expertise in **Dockerizing applications, managing container registries and deploying container-based applications** across Kubernetes clusters.
- Designed and maintained Kubernetes clusters, ensuring **99.99% uptime** across AWS.
- Optimized Terraform provisioning, reducing infrastructure deployment time by **30%.**
- Providing Branching Strategies and demonstrated source control management concepts - Branching, Merging, Labelling/Tagging, and Integration to Dev Team.


## HCL Tech - Consultant | July 2021 – May 2024

- Proficient in writing Ansible playbooks for automating application deployments and configuration management.
- Have knowledge of AWS services like EC2, ELB, EBS, S3, VPC, Route53 and IAM for managing multiple applications.
- Hands-on experience on Terraform for implementing infrastructure as a code for AWS.
- Experienced in managing and using the Jenkins build system for CI and CD process.
- Well Experienced in Hosting and Managing Complex applications in AWS and Google cloud in VM based and dockerised platforms.
- Experienced in writing Docker files to build Docker Images.
- Good hands-on knowledge of Source Code Management (Version Control System) tools like Git
- Automating the manual deployments using Shell and python scripts in different environment.
- Managing and configuring monitoring/logging tools such as Grafana and Stack driver for monitoring and logging.
- Good Hands-on experience with Unix/Linux
- Knowledge in Hashi Corp Packer for Building Amazon Machine Images and Google Cloud Images to achieve system configuration and dependent package installations at the initial phase.
- Hands-on Experience on Deploying Container-based applications to EKS, GKE and Kubernetes Engine.

**Harman Connected Services - DevOps Engineer | Oct 2017 – July 2021**

- Actively working with HQ counterparts on Infrastructure Provisioning (IaS) for Microservices services using Terraform, Packer, Ansible, GitLab, GitHub and AWS cloud.
- Architected and deployed multi-cloud applications on AWS achieving an increase in scalability. Developed and implemented automated Jenkins jobs for running Packer and Ansible scripts, reducing manual effort.
- Managed and optimized Jenkins build system for CI and CD processes, resulting in reduction in build time.
- Built and deployed Amazon Machine Images using Hashi Corp Packer, achieving reduction in image creation time. Implemented Spinnaker for deploying applications to AWS achieving an increase in deployment speed. Managed and hosted complex applications in AWS leveraging VM-based and Dockerized platforms, resulting in an increase in application availability. Wrote Docker files to build Docker Image achieving reduction in image build time.
- Deployed container-based applications to EKS improving application scalability. Configured and managed monitoring/logging tools such as Grafana, Datadog, and Stack driver, resulting in reduction in monitoring time.
- Set up VPCs and VPC peering between two VPCs, providing secure and scalable network infrastructure for customers. Provided secure access to customers by setting up VPN between VPC and customers' network, ensuring secure data transfer. Deployed Bixby 2.0 application on AWS infra using Spinnaker and Jenkins, achieving 25% increase in application performance.

Education:
- **BTech**, JNTU-A University, Andhra Pradesh.