

# ANSHUL PATEL

SRE | DevOps | Cloud | Infra-as-Code | Chaos Engineer

Email: [anshulpatel25@gmail.com](mailto:anshulpatel25@gmail.com)

Website: [www.anshulpatel.in](http://www.anshulpatel.in)

Mobile: +918390905963

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## Experience Summary

- Seven years of applied experience in System Administration, Development Operations, and Site Reliability.
- Cloudbees Certified Jenkins Engineer.
- US B1 visa is valid till 2028.
- Experience in designing CI and CD pipelines with industry best practices.
- Experience in designing Cloud Infrastructure using Linux Container Technologies, Infrastructure-as-Code, and Configuration Management tools.
- Experience in working with Agile frameworks like Scrum and Kanban.
- Experience in mentoring and scaling junior resources to become self-organized.
- Able to communicate efficiently and concisely with clients across the globe.
- Aptitude for analyzing, identifying problems, and documenting it.
- Ability to achieve organizational integration, employ new ideas, concepts, methods, and technologies.

## Qualification

- B.Tech in Information Technology from Charotar University of Science and Technology, Gujarat, India. [2009 – 2013]

## Programming Languages & Technologies

- **Operating Systems:** Linux, Unix, Windows.
- **Revision Control System:** Github, Gitlab, Bitbucket.
- **Application Servers:** Tomcat, HTTPD, Nginx, Traefik.
- **Monitoring Tools:** AWS Cloudwatch, Prometheus.
- **Logging and Visualization:** Elasticsearch, Kibana, Grafana, Jaeger, Kiali.
- **Database Systems:** MySQL, PostgreSQL, MongoDB.
- **CI/CD:** Jenkins Pipelines, Google Cloud Build, Harness.io.
- **Programming Languages:** Core Java, Go.
- **Scripting Languages:** Python, BASH Shell.
- **Infrastructure-as-Code:** Chef, Terraform, Ansible, Packer, Vagrant.
- **Big Data:** Apache Mesos, Apache Kafka, Apache Zookeeper, Apache Airflow.
- **Container Technologies:** Docker, Apache Mesos, AWS ECS, Kubernetes [GKE, EKS].
- **Public Clouds:** Amazon Web Services, Google Cloud Platform.
- **Chaos Engineering:** Chaos Lambda, Gremlin Platform, Toxiproxy.
- **Caching Engine:** Redis.

## Professional Awards

- Best System Engineer - Elitecore Technologies [2013 – 2014]
- Amdocs Star Spot Award [2014]
- Amdocs Employee of the Quarter, CMDEV-PEBU [2015]
- Exceptional Contribution to Amdocs RCM Release v 9.3 [2015]
- Rising Star - Infostretch [2017]

- Best Team - Infostretch [2017]
- Bright Spark - Infostretch [2018]
- Best Lead - Infostretch[2019]

## FOSS Speaker

- Conducted Meetup on the following
  - Amazon Web Service EC2 Container Service
  - Apache Zookeeper
  - LinuxKit
  - Docker Notary
- Conducted Lightning talk on Building CLI apps with Golang
- Current Organizer of Chaos Engineering Ahmedabad Meetup group

## Infostretch India Pvt. Ltd.

**Role: Sr. Technical Lead – DevOps**

**March 2017 – Present**

### **Project Client: Startup – Data Informatics SaaS Platform**

- Implemented Continuous Delivery Pipelines using Google Cloudbuild and Harness for deploying microservices of the SAAS platform on GKE.
- Designed and implemented delivery mechanism for deploying and promoting Airflow DAG code via Google Cloudbuild.
- Containerized Airflow Webserver, Scheduler, and Workers for on-demand elasticity and scaling on GKE.
- Lead the Development of python SDK for client's SAAS platform.
- Conducted chaos experiments using Toxiproxy.
- Responsible for administration of staging and production GKE clusters for Airflow and SaaS Microservices Platform.
- Implemented SRE practices such as Playbooks using Jupyter notebooks and Postmortem reports.
- Conducted Knowledge Transfer sessions and code reviews of the fellow engineers.

### **Project Client: Leading Location-Based Service Provider**

- Designed and developed on Pipelines for Infrastructure-as-Code for Elasticsearch, Consul, Kafka, Vault, Docker, Swarm, Kafka, Zookeeper, and Prometheus using Jenkins Pipeline-as-a-code Ansible, Terraform, and Packer on AWS.
- Designed and implemented high availability and self-healing for Docker Swarm, ElasticSearch, Consul, Kafka, Prometheus, and Zookeeper clusters on AWS.
- Implemented Cloudstor for persisting container data volumes for stateful services.
- Implemented service discovery in Docker Swarm using ContainerPilot and Consul.
- Implemented centralized log aggregation for Microservices using Filebeat, Kafka, and Elasticsearch.
- Implemented SRE practices such as Playbooks and Postmortem reports.
- Mentored, conducted knowledge transfer sessions, and code reviews of the junior engineers.

### **Project Client: Leading Health Care Provider**

- Implemented development Kubernetes (1 – master, 3 – workers) development cluster via kubeadm on bare-metal machines.
- Developed Kubernetes manifests for Hyperledger Fabric and deployed on Kubernetes development environment.

### **Project Client: Leading Cosmetics Company**

- Implemented Kubernetes cluster on AWS using kops (gossip-based).
- Implemented browser testing grid Zalenium on top of Kubernetes.
- Implemented upscaling/downscaling of underlying EC2 Kubernetes workers via cluster auto-scaler.

### **Project Client: Startup – Mobile/Wearable Domain**

- Developed Continuous Delivery pipeline with best practices for Android and iOS mobile applications using Jenkins Pipeline, Sonarqube, Vera++ and HockeyApp.
- Developed a Continuous Delivery pipeline with best practices for QT application for Windows and Macintosh systems.

## **Talentica Software Pvt. Ltd.**

**Role: Sr. DevOps Engineer**

**October 2016 – March 2017**

### **Project Client: Startup – Wireless Telecom Domain**

- Automated infrastructure provisioning and application installation via Terraform and Chef.
- Provided operational support and mentored junior engineers on AWS, Apache Zookeeper, Apache Kafka and Apache Mesos clusters and also implemented Wiki Playbooks describing steps and troubleshooting of infrastructure.
- Developed Grafana queries to visualize the monitoring data.
- Developed custom clients in Go, Python for Riemann monitoring system to monitor Apache Kafka, Apache Zookeeper, Apache Mesos on AWS.
- Implemented Traefik HTTP reverse proxy for routing traffic to Docker containers deployed in the Marathon Mesos framework.

### **Project Client: Startup – Real Estate Domain**

- Automated Backup and Restore strategy for production infrastructure via Jenkins, BASH, and Python.
- Implemented Auto Scaling feature for Production infrastructure to handle spikes in traffic.
- Developed Chef cookbooks for LAMP stack installation.
- Provided operational support for AWS.

## Amdocs

**Software Configuration Management Engineer**

**August 2014 – November 2015**

**Project Client: Tier 1 Telecom Client – Balkan Peninsula**

- On-site support for maintenance, up-gradation, patching of Staging, UAT, and Production environments of Amdocs Customer Management Products on IBM Websphere.
- Contributed to the Amdocs Production Systems Operational document.
- Provided assistance to the Client Infra Team to troubleshoot the issues.

**Product: Amdocs Customer Management Portfolio**

- Deployed the latest releases of Amdocs Customer Management Products on Weblogic/Websphere on Integrated, Development, and Performance Testing environments in coordination with Israel Team.
- Implemented HP Fortify SCA, Sonar, Protecode FOSS scanner in Jenkins CI pipeline for Amdocs Customer Management Products.
- Developed Wrapper Framework in Python to build immutable VM images of Amdocs Customer Management Products so that it can be deployed on VMWare vCloud.

## **Elitecore Technologies Pvt. Ltd. (Sterlite Technologies)**

**Jr. System Engineer**

**July 2013 – August 2014**

**Project: Tier 1 Telecom Client – South East Asia**

- On-site Implementation of Crestel WorkForce Management and Crestel Web Self-Care stack on UAT, Staging, and Production environments on JBoss in Active-Passive Topology using Apache HTTPD and mod\_jk.
- Audited production hardware for security in coordination with the client's IT team.
- Configured metrics health monitors for Production Jboss, Tomcat, HTTPD using ManageEngine suite.

**Product: Crestel Billing Business Support System**

- Developed the BASH framework to deploy Crestel BSS applications on JBoss and Tomcat.
- Developed CI pipelines to build nightly builds using Jenkins and Ant.

## Personal Details

**Birthdate:** 2nd May 1992

**Marital Status:** Married