

Shrey Patel



Passionate DevOps Engineer who smashes the keyboard until the issue is resolved!

EXPERIENCE

Phonon Communications Pvt. Ltd., Vadodara — Site Reliability Engineer – DevOps

November 2020 - PRESENT

1. Migrated in-house Data Center (Located at Bangalore to AWS) + Phonon's WebApp AWS Infra. Management

Deployed necessary infra. using terraform with partial manual intervention.

AWS – VPC, Subnet(Private/Public), Route Table, Site-to-Site VPN tunnel establishment, VPC Peering between accounts, NAT Gateway/Instance (NATting), Deployed NLB(Websocket related traffic)/ALB(http/https) for routing of internet traffic to web server, IPTable configuration, Bastion/Jump Server creation to disallow direct access, AWS API gateway for accessing outside/inside APIs, Lambda functions, IAM Role based application configuration to not use Access key/Secret Key, AWS S3, IAM Cross account management, AWS Direct connect to connect with Sify for SIP Trunk configuration, IGW, VGW, CGW, Transit GW etc.

1. Phonon's Web App. Responsibility

Phonon's web application end-to-end setup/responsible on AWS. (Infra. setup using terraform, Other includes Apache, Nginx – HA Proxy, Tomcat, Java environment related setup, Supervisor, Asterisk basics, SFTP, ActiveMQ – Artemis setup/migration)

2. Databases

MySQL – Created master-master replication for HA + AWS Migration

MySQL procedure creation, user management , Data Purging etc.

MongoDB – Created Primary-Secondary 3 node cluster of MongoDB

Data Purging, User Management, Performance Tuning

Currently involved in automated Data Purging for MySQL + MongoDB(TTL Index)

Redis – Created standalone redis DB for higher performance of web application which utilised in cache memory.

3. Docker / Kubernetes

ELK Stack deployed on spot instances provided by spot.io for staging/dev env. For POC purposes. Whereas in Prod. env. deployed ELK on EKS as faced with an issue in a stateful app. management on spot based k8s cluster. Used kops utility to manage/creation of cluster on spot instances. Created web based automations to remove manual interventions on daily

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SKILLS

Migration of on prem solutions/DB to cloud

AWS, Terraform, CI/CD

(Jenkins/Started learning

with JenkinsX), Python, ELK (for centralised logging/MIS),

Ansible / Puppet – Elementary level, Docker – Intermediate,

kubernetes – Elementary.

Nagios / Prometheus /

Grafana – Elementary, Shell

Scripting, Splunk, DBMS

(MySQL, MongoDB, Redis),

Apache / Nginx, ActiveMQ,

Asterisk (Basic), Linux , Shell

Scripting, Git, Maven, Node

application management

(pm2 based), Data Analysis

using ML (Elementary – Not

production level experienced)

AWARDS

Crest Achievement

Program(CAP) – Awarded for technical troubleshooting

LANGUAGES

English, Hindi, Gujarati

tasks & converted into images to make it containerised & so deployable on docker. Deployed jenkins, redash, metabase etc. on docker.

CI / CD – Build/Release/Deployment + Git

Created CI/CD on Jenkins with git repo. as AWS Codecommit (Declarative pipeline using groovy) – polling based mechanism. It includes a maven based pipeline to deploy war/jar on tomcat/supervisord. Also created a single pipeline for node based application(pm2). Previously nexus was used to publish maven artifact which is on prem, migrated it to AWS CodeArtifact. Worked on Maven Lifecycle to streamline artifact versioning using POM.xml. Experienced with Git

Other things :

ELK – Setup ELK for centralised monitoring / logging server / Daily MIS & Visualisations. Nagios / Prometheus / Grafana / Datadog – elementary work experience on configuration/alerting & visualisation. Single Openvpn server setup for multiple cloud account servers.

Crest Data Systems, Ahmedabad — Software Engineer E2 – CloudOps

May 2020 - October 2020

Promoted to Software Engineer. Responsible for deployment & management of Splunk Cluster infrastructure on AWS cloud. Working on DevOps technologies (Puppet) for automating the process of deployment of splunk software on cloud.

[Achievement : CAP award]

Crest Data Systems, Ahmedabad — Jr. Software Engineer – CloudOps

May 2019 - April 2020

Worked on Splunk for analysing logs & setup dashboards for the same. Initially worked on Ansible playbook creation & then shifted to puppet based splunk software deployment project.

EDUCATION

Chandubhai S Patel Institute of Technology, Charusat University — B.Tech (Computer Engineering)

2015 - MONTH 2019

CGPA : 9.41

INTERNSHIPS

Crest Data Systems, Ahmedabad — Software Intern

December 2018 - April 2019

Gone through training of AWS, Splunk, DevOps technologies (Puppet, Terraform, Ansible, Jenkins). Developed automation using Terraform & Ansible to deploy Splunk Cluster on AWS for error/access logs analysis.

Access Computech Pvt. Ltd., Vadodara -Software Developer Intern

June 2018 - July 2018

Designed prototype of face detection software(based on ML) which is used during Garba festival to identify fraud persons during Garba entry as it compares registered face & face of person during entry of Garba.

Zithas Technologies Pvt. Ltd., Vadodara - Intern

May 2017 - June 2017

Worked at Zithas Technologies on AWS. Maintained client's HRMS portal on AWS cloud. Had experience on AWS services.

Azure Skynet Solutions Pvt. Ltd., Vadodara -Intern Cyber Security

June 2016

Implemented SQL injection, Reverse Engineering, Phishing, Cross Scripting etc. on live websites.

ACADEMIC PROJECTS

Deployed Splunk Cluster on AWS Using Terraform & Ansible (*Crest Data Systems, Ahmedabad - 8th semester, Charotar University of Science & Technology*)

Deployed Splunk cluster on cloud based platform (AWS) to analyse real time logs of websites. Used automation technologies (Terraform & ansible) for deploying & orchestrating infrastructure on cloud.

Hosting of static website on Nginx web server using Amazon Web Services (AWS) (*6th semester, Charotar University of Science & Technology*)

Launched static website on nginx web server using single Amazon Cloud instance (EC2). Also implemented basic services of AWS to understand real time scenarios.

Online Handwritten Digit Recognition (*5th semester, Charotar University of Science & Technology*)

Differentiated (0-9) digits using Linear SVC machine learning algorithm. Image Processing is done using HOG technique. Created a website using PHP & HTML, CSS, JAVASCRIPT for uploading images of digits.

Automation script to deploy application on more than one machine (*4th semester, Charotar University of Science & Technology*)

Used bash shell script to deploy test application on 2 or more machine from server which reduces human efforts to configure application on each machine

House Price Prediction & Data Analysis (*3rd semester, Charotar University of Science & Technology*)

Implemented various machine learning algorithms to predict house prices & analysed each ML classifier's accuracy. Also did data preprocessing,

cleaning, transforming etc. before applying ML algo.

WORKSHOPS / SEMINARS

Workshop On “Data Science & Analytics using Python” (Mar 2018) - Charotar University of Science & Technology(CHARUSAT)

Learnt about Data analysis & Different machine learning algorithms on real life data by using Python.

EXTRA CURRICULAR ACTIVITY

1. Chosen as “College Ambassador” of IIT-Bombay,Techfest
2. Member of “Charusat CodeChef Chapter” & “Charusat Coding Society”
3. Member of Web/App development team of Cognizance(University Techfest)
4. Actively participated in coding competitions held by Google Codejam, TCS codevita, Hackerrank

PROFESSIONAL MEMBERSHIP

Computer Society of India(CSI)