

Yogesh Kumar Sharma

Staff Software Engineer (SRE/DevOps)

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Contact

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Location : Bangalore

Objective

To provide your organization with the best possible computer and systems administration, maintenance and support services where all my Development, Testing and Admin Skills will contribute to organization efficiently.

Summary

- Professionally accomplished software engineer with over 9+ Years of diversified experience as DevOps/SRE and Development in e-Commerce, BFS, FMCG, Large Scale Software Companies.
- Disciplined with proven abilities to manage multiple assignments efficiently, ascertaining needs and goals, streamlining existing operations, envisioning new concepts and future trends and following through with development, direction and accomplishment.
- Developing tools and services for better developer productivity.
- Focused on engineering excellence.
- Strong experience in Public Cloud in a variety of distributed computing environments.
- Strong experience in Infrastructure as a Code (IaaS). Automating almost everything possible.
- Solving mega scale distributed environment complex problems.
- Strong experience in CICD, Monitoring development and observability, HA/DR, Fault Tolerance and Auto-Remediation.
- Containerizing services and handling large scale Kubernetes environments.
- Managing End to End Cycle of Application.

Key Skills (Tools and Technologies)

As an DevOps/SRE, skills are not limited to specific tools and technologies but more aligned to what best can be chosen/developed to solve a problem efficiently. To name few tools and technologies that I have actively worked on are as follows:

- Language** Python, BASH and Go Lang (Beginner in Go)
- Cloud & Virtualization** AWS, Cloud Stack (Apache/Citrix).
- Containerization** Docker, Kubernetes (KOPS and EKS)
- Operating System** RHEL (6/7), CentOS (6/7), Amazon Linux 2
- CICD, Orchestration & Tools** Jenkins Blue Ocean, Rundeck, ArgoCD, Argo Rollout, Chef, Code Deploy, Code Pipeline, Troposphere, packer, terraform etc.
- Network & Security** DNS (Bind, FreeIPA), AWS NACL, WAF, IP-Tables, TCP/IP, IPv4, HTTP/HTTPS, etc.
- Application Servers** Apache Karaf, Tomcat, Jboss
- Web Servers/SSO** Nginx, Apache Web Server, IBM HTTP Server, Lighttpd
- Monitoring** Nagios, Icinga, Check Point, New Relic, Chart Beat, AppDynamics, Splunk, Wily, SiteScope, Cloud Watch, Monit etc.
- Database** MySQL, Influx-DB (TSDB)
- No SQL** Aerospike, Mongo, Couchbase
- Caching** Varnish, Aerospike, Akamai, Memcached
- Log Mgmt & Visualization** Splunk, Wavefront, ELK, EFK, Grafana, StatsD, Graphite, Telegraph, Prometheus

Experience

- Organization:** Intuit Inc. (25 Jan 2016 to Present)
Designation: Staff Software Engineer (DevOps and Site Reliability Engineering, Intuit Developer Platform)

Role and Responsibilities

In this role, as a part of Intuit Platform Team, I am mainly focused on Engineering excellence, Site Reliability, CICD, Monitoring development and Observability, Application and Service/Tool Development, Automation, K8S and Containers, writing patterns and Cloud native application design for better developer productivity.

Managing the reliability, observability of tier-0 service with throughput of 1 million requests per second and over 15 billion transactions per day having single digit millisecond latency.

Taking off the burden from hundreds of Intuit team by managing their North-South traffic through in-house high-scale API Gateway and east-west traffic through service mesh for thousands of Internal/External Services by providing a robust, scalable, fast and secure communication channel.

Solving large scale complex problems such as deployment at scale, monitoring at scale, mega scale cloud environment management (AWS and Kubernetes), Infrastructure as a Code (IaaS) i.e., either writing custom solution from scratch or using available open-source tools and technologies, HA/DR, Fault Tolerance and auto-remediation, Capacity planning.

My current role is not limited to specific tools but more around choosing the best solution for the problem (as above) when managing mega scale distributed systems, however, to name few,

1. Python (almost everywhere) and Go (started with it) for all Automations, Service and Tools Development.
2. AWS as public Cloud
3. Jenkins, ArgoCD, Rundeck, Code Deploy and Code Pipeline etc. for CICD
4. KOPS, EKS for Kubernetes
5. Docker for containerization
6. Troposphere (**Also as Contributor**), Terraform, Chef, Ansible for IaaS, Orchestration and Configuration.
7. Monitoring development using Enterprise solution or open source like telegraf, Graphite, StatsD

My weekly activities are divided as:

1. 55-60% Writing Automation and Services
2. 25-30% time in RTB and On Call where I make sure existing thing runs at scale with minimum MTTR and MTTD.
3. Remaining time in mentoring New or Junior members of team, writing SOP, Runbook so that other members in team are up to the speed as soon as possible.

2. Organization: SNAPDEAL.COM (19 Jan 2015 to 22 Jan 2016)

Designation: Senior DevOps Engineer

Role and Responsibilities

- Primarily responsible in designing an Infrastructure for Payment Wallet (mainly known as Free-Charge Wallet), starting from choosing a Network CIDR to provisioning/Configuring Virtual Machines to Application Go Live and making it compliant for SISA audit.
- SRE for Snapdeal.com

It includes:

- Automating as much as possible.
- Migration of AWS Infrastructure to Private Cloud Cirrus.
- OS Management and Hardening
- Designed Log Management using EFK (Elastic Search, FluentD and Kibana)
- Deploying Host Based Intrusion Detection System (HIDS) OSSEC to monitor system and user Activity.
- Central Authentication (Dual Factor or MFA) using FreeIPA and extending its usage to DNS.
- Managing Internal PKI Infrastructure for Internal Certificate Authority.
- Designed Cloud Infrastructure for KlickPay (Snapdeal Subsidiary which owns Payment Gateway) from dev to production.
- CI/CD using Chef (i.e., writing cookbooks, managing Data Bag), Jenkins so that minimum intervention of DevOps is needed. Experience in writing Ansible Playbook as well and using them wherever necessary.
- **Designed an Internal WAF** (Web Application Firewall) for Internal Application using Mod Security, Apache WebServer and HAProxy (with acl applied for DDOS prevention).
- NoSQL Databases: Aerospike.
- Making Infrastructure Highly Available and Scalable to make sure uptime is always 99% and above. Used HAProxy, DNS LB and ScaleArc (DB Load Balancer) for balancing multi-node environment.

3. Organization: IPsoft Inc. (12 March 2012 to 05 Jan 2015)

Designation: Application Engineer (Infrastructure)

Client:

MasterCard International, Hindustan Unilever Limited, InterContinental Hotels Group, National Football League, BT (Cloud Compute), Viacom Inc, Genworth Financial, IPsoft (for Internal Infrastructure).

Role and Responsibilities:

- Technical Lead (Cloud Platform) for British Telecom, Managing Cloud Environment based on Apache Cloud Stack/VMware.
- Ensuring 99.8% uptime of MasterCard Internet Infrastructure hosting real time Tier 1 Applications and System used in Financial Transaction across the globe.
- Working with MasterCard TRT (Technical Recovery Team) teams on production issues for Mission Critical Applications.
- Managing MasterCard entire DNS Infrastructure.
- Managing Hindustan Unilever Limited (HUL) Applications based on WebSphere Application Server (ND) and JBoss (For Application deployed on Amazon EC2).
- Fixing environment Security vulnerabilities per PCI compliance for HUL.
- Project work experience in Installation/Configuration and upgrade of Enterprise infrastructure including WebSphere/ JBoss Application Server and IBM/Apache Web Server.

- Level 2 (L2) responsibility for developing monitoring using Nagios.
- Automation using IPsoft proprietary tool IPautomata.

4. Organization: NTT Data (formerly First Apex Software) (1 August 2011 - 15 Dec 2011)
Designation: Software Engineer

About Team:

Customer Product Team is responsible for designing/customizing First Apex product as per Customer requirement.

Client:

Warba (Kuwait) and POP Vakuutus (Finland)

Role and Responsibilities:

- Member of development Team working dedicatedly in developing BFSI projects for Insurance based companies which involves sector like Motor Insurance, General Insurance and covers the full cycle of insurance operations from point of sale right through to the general ledger.
- Application development using FTL (Free Text Markup Language) and J2EE.
- Database used Oracle 9i with Application Server WebSphere Application 6.

Certification and Training

- **Red Hat Certified Engineer (RHCE)**
Certification Number: 805010137051739
- **VCE - Converged Infrastructure Associate**
Certification Number: VCE-CIA0001957
- **Rack Space CloudU Certified**
Certification Number: a04275f1-db84-493a-a171-6024ae58a6b0

Education

Standard	Year	Score	Percentage	School/College/University
X - CBSE	2004	365/500	73.0	Kendriya Vidyalaya No.2 Golconda Hyderabad, AP
XII - CBSE	2006	398/600	66.3	Kendriya Vidyalaya No.2 AFS Hindon, Ghaziabad, UP
B.Tech - CSE	2007-2011	3864/5000	77.3	Uttar Pradesh Technical University

Declaration

I solemnly declare that the above information is true and correct to the best of my knowledge. I understand that if any information given above is found false/incorrect, my candidature is liable to be rejected.

Date:

Place: Bangalore

Yogesh Kumar Sharma