

# Yogesh Kumar Sharma

Staff DevOps Engineer/SRE

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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 IT Professional with over 8 Years of diversified IT experience in e-Commerce, BFS, FMCG, Hi-Tech and Healthcare domain managing advanced multiplatform I.T. Infrastructure.
- 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.
- Strong track record of implementing AWS services in a variety of distributed computing environments.
- Experience either building new apps on cloud (cloud native), migrating apps/DB to cloud or re-architecting existing apps to cloud-native / micro-services architecture.
- Managing Infrastructure as a Code using various skills such as Python, Troposphere, Packer, Terraform, Cloud Formation, Chef etc.
- Automating almost everything possible in various languages, Mainly in Python
- Developing tools and services for better developer productivity.
- Focused on engineering excellence.
- Experience in managing/operating large scale systems handling billions of transactions
- Experience in design and Architecture for Large Scale Application.
- Experience in migration of Services to AWS from Private Data Center and Vice Versa i.e. from AWS to Private Cloud.
- Exploring open source tools (POC) and their Implementation in Production Environment.
- Managing End to End Cycle of Application.
- Strong administration skills in multiple Application Servers on Linux/Unix Platform which involves Installation, Configuration, Deployments, Clustering and performance tuning.

## Key Skills

- **Language** Python, BASH and Go Lang (Beginner in Go)
- **Cloud & Virtualization** AWS, Cloud Stack (Apache/Citrix).
- **Containerization** Docker, K8S (IKS)
- **Platform** RHEL (6/7), CentOS (6/7), Amazon Linux 2
- **CICD, Orchestration & Tools** Jenkins Blue Ocean, Rundeck, Argo CD, 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, Lightpd
- **Monitoring** Nagios, Icinga, Check Point, New Relic, Chart Beat, AppDynamics, Splunk, Wily, SiteScope, Cloud Watch, Monit etc.
- **Database** MySQL, Influx-DB
- **No SQL** Aerospike, Mongo, Couchbase
- **Caching** Varnish, Aerospike, Akamai, MemCached
- **Log Mgmt & Visualization** Splunk, Wavefront, ELK, EFK, Grafana, StatsD, Graphite, TeleGraph

## Experience

### 1. **Organization:** Intuit Inc. (25 Jan 2016 to Present)

**Designation:** Staff Site Reliability Engineer (Intuit Developer Platform)

#### **Role and Responsibilities**

Joined as Senior SRE and *promoted to Staff SRE* in Jan 2018. *Staff in Intuit is a LEC (Leaders and Expert Contributor) role.* In, this role, I am mainly focusing on Automations, K8S, Tools and Application Development, writing patterns, streamlining operations and RTB work as a part of Intuit Platform Team. ***I have also worked on writing a Patent which is currently under review as of July 2019.***

Being in IDevP Team, I manage large scale central platforms such as Intuit API Gateway, Messaging Platform, IKS (Intuit Kubernetes Service) etc. serving billions of transactions per day and widely used by all other services/team in Intuit.

Earlier, in Senior SRE role I was having responsibility of managing/automating complete infrastructure for Intuit Teir-1 Services using combination of both open source and Enterprise Technology.

#### **Some Key or Daily Activity Includes:**

75% of work hours, I contribute to:

- Managing Infrastructure as a Code.
- Developing services/tools for better developer productivity. One of the service that I wrote is currently under review for filling a patent.
- Helping team to onboard to K8S (Intuit Kubernetes Services) and CICD using Argo CD for K8S.
- Managing application CI/CD using various tools such as Capistrano, Jenkins, Rundeck, Argo CD and Chef.
- Re-Architecting Application design with Intuit Architect Team to meet Intuit Security Standard in AWS.
- Monitoring development and configuration using various tools such as Splunk, NewRelic, AppDynamics, Grafana, Wily, SiteScope, Wave front, etc.

In remaining 25% of Work hours, I mainly focus on:

- Level 3 On Call Support for all supported Services.
- Run the business work, troubleshooting Incident bridges and fixing the issue to maintain MTTR.
- Knowledge transfer to Junior/New Team members.

### • **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 FreeCharge 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 DataBag), 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.

- **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.

- **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