RAHUL GUPTA

☎ : (847) 371-1874
✉ : rahulgupta271@gmail.com

SUMMARY

KEY SKILLS AND KNOWLEDGE

- Container Orchestration (OpenShift, Kubernetes & EKS)
- Infrastructure as Code (IAC)
- Continues Integration and Continues Delivery (CI/CD)
- ML Pipelines
- Big Data Architectures and Management
- Cloud Based Solutions
- Deployment Automation & Orchestration
- Distributed File System

TECHNOLOGIES USED

Cloud

- AWS, EC2, EBS, EMR, Redshift, S3, ECS, EKS, IAM, VPC, Lambda

DevOps

- Git, Jenkins, CI/CD
- Terraform, Ansible, Docker, AWS Cloud Formation, Pipeline Scripting

Platform

- OpenShift (RedHat)
- Kubernetes
- EKS

Big Data

- AWS EMR
- Spark, Kafka, Hive, Presto
- HDFS, YARN

EXECUTIVE PROFILE

- Over 11 years of IT experience in automating builds and deployment process with recent focus on DevOps tools and AWS Cloud Architecture.
- Experience in Terraform, Ansible, Docker, Kubernetes, AWS Cloud Formation, GIT, Jenkins, Maven and Managed Services like EC2, S3, Route53, ELB, EBS.
- Experience in managing the Model deployment pipelines using Kubernetes and OpenShift platforms.
- Successfully managed and implemented comprehensive IT solutions/strategies using both COTS and Open-Source software
- Extensive experience in deployment & managing Microservices on Kubernetes Platform
- Extensive experience in managing data science platform at the intersection of Cloud (AWS, Kubernetes, Docker, Snowflake), Software Engineering (UI and Microservices), and Data Science (Python, Spark, H2O, R, SAS).

RECENT EMPLOYMENT

Principal Data Platform Engineer	Discover Financial Services	Jan 2018 – Till Date

Managing following activities as **Principal Data Platform Engineer**:

- Helped is designing and Implemented the core Data Science workbench for Data Scientists across the enterprise.
- Design and Implemented the ML Pipelines for dev, UAT and Prod.
- Design and Implemented cost optimization solution at Container Level (Kubernetes Pod), EFS and EC2.
- Implemented a production ready, load balanced, highly available, Secured, fault-tolerant Kubernetes infrastructure.
- Used ElasticSearch, Fluentd & Kibana for maintaining Kubernetes system logs and Container logs.
- Design and Implemented SIDE-CAR and INIT containers strategy.
- Helped teams to identify the right resources in AWS as per the system/application needs.
- Published multiple articles/user guides at Enterprise level and vendors site (AWS Blog)

Managing following activities as **Lead Data Engineer**

- Managed Terraform Modules, Ansible Playbooks, Ansible modules and Ansible tower end to end for self-service portal for users to provision the infrastructure in AWS.
- Built Jenkins jobs to create AWS infrastructure from GitHub repos containing terraform code.

Development

- Unix Shell Scripts
- Python
- Jenkins pipeline scripting, Maven, gradle, ant

Monitoring

- Instana, Logstash/fluentD, Kibana
- Datadog

Operating System

- RHEL
- Centos
- Ubuntu

CERTIFICATIONS

- Certified Kubernetes Application Developer (CKAD)
- Certified Kubernetes Administrator (CKA)
- Certified AWS Solution Architect Associate
- Robotics Process Automation - UiPath

DOMAINS

- Banking
- Retail
- Health Care

EDUCATION

MS in Data Science – Bellevue university (In- Progress)

Bachelor of Technology in Electronics and Instrumentation.

- Designed and Developed cost optimization solutions for AWS Services
- Implemented account/platform hardening for AWS Cloud to provide the minimal access using Terraform Modules and AWS lambda.
- Managed and assisted in application migration from on-prem to Cloud
- Design and Developed data migration strategy from on-prem to Cloud.
- Designed and documented CI/CD process and implemented. Designed and documented CI/CD process and implemented.
- Worked as Cloud Solutions Architect for massive digital transformation to evolve client technology landscape by building a Next-Gen Data Platform and Data lakes on AWS

DevOps Engineer	Walgreens	Jan 2015 – Dec 2017

Managing following activities for

- Responsible for designing and implementing cloud-based solutions for web-based applications on AWS.
- To create, change, and improve infrastructure as code by using Terraform.
- Design and documented CI/CD process and implemented using the Atlassian tools stack – JIRA, Bitbucket, Bamboo.
- Developed and deployed scripts by configuring GRADLE and MAVEN build tools in Jenkins and Bitbucket to automate software development process.
- Worked in AWS environment, instrumental in utilizing Compute Services (EC2, ELB), Storage Services (S3, Glacier, Block Storage, Lifecycle Management policies), CloudFormation (JSON Templates), Elastic Beanstalk, Lambda, VPC, RDS, Trusted Advisor and Cloud Watch.
- Deploying and maintaining production environments using AWS EC2 instances, RDS and s3.
- Provisioned and Managed users, roles, policies and services with Identity and access management (IAM).
- Provisioned and Managed security groups for Development and Production AWS accounts.

EMPLOYMENT HISTORY

Sr Software Engineer	Walgreens	Jul 2013 – Dec 2014
Application Programmer	TCS - India	Mar 2011 – Jun 2013