

# AKHIL RAJ

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## CAREER SUMMARY

IT Professional with 5+ years of Experience in leading and directing IT Projects from inception to completion. With progressive experience as DevOps Engineer, I have proven ability in Infrastructure design, Automation in the deployment side, Microservice (Docker and kubernetes) network and architectural design. Highly motivated and innovative professional with hands-on and in-depth experience in Multiple Technologies.

## PROFESSIONAL EXPERIENCE

### Manager Grade I (Sr. Software Engineer II) at Concentrix Daksh Services

Work Location: Bangalore, India

Period: Feb 2021 - Present

#### Roles & Responsibilities:

- Jenkins and Jenkinsfile with Shared groovy library for CI/CD
- IaC with Deployment Manager (GCP), Cloudformation Template (AWS)
- Review, verify, and validate the software code developed for DevOps tasks
- Designing microservice deployment architecture and implementation.
- Managing virtual machines and other services in multiple cloud providers such as AWS, GCP and Azure.
- Maintaining and configuring virtual machines and dependencies with ansible.
- Helping Developers to fix the deployment issues and dockerization of services.
- Managing Databases and cached services for multiple environments such as MySQL, Memcached and Redis.
- Working with scrum methodologies

### DevOps Engineer at Extreme Innovation Technosys (Kognitiv Corporation)

Work Location: Bangalore, India

Period: Sep 2018 - Oct 2020

Kognitiv acquired Xtreme Blockchain Labs on 2019-07-01.

#### Roles & Responsibilities:

- Working on blockchain and hyperledger fabric to configure private blockchain networks and deployed on kubernetes with custom docker images.
- Production and non-production automatic deployment of services with Jenkins server.
- Managing infrastructure and network in multiple cloud providers such as GCP, AWS and Azure.
- Designing microservice architecture for the product and deploying it on the kubernetes cluster.

- Versioning and rollback strategy for microservices in k8s deployment.
- Storing service logs / deployment logs in elasticsearch and configuring visualization in kibana.
- Monitoring services and deployments with Prometheus and Grafana (whitebox monitoring) and Nagios server (blackbox monitoring).
- Managing multiple database servers and managed services such as MySQL, PostgreSQL and MongoDB in the project.
- Monitoring & troubleshooting performance related issues in kubernetes and virtual machines.
- Creating complex Shell script / Python Script for automation tasks.
- Using cloudbuild from GCP to build and deploy artifacts.

### **DevOps Engineer at Vivasa Information Systems**

Work Location: Bangalore, India

Period: July 2016 - Mar 2017 as **DevOps Consultant**

Period: Mar 2017 - Aug 2018 as **DevOps Engineer**

#### **Roles & Responsibilities:**

- Creating dockerfile and docker-compose file for multiple service deployment on virtual machines.
- Configuration and management of Development environments like eclipse che and codenvy which can be accessed over the internet from anywhere with proper security measures.
- Managing source code in GitLab, Github.
- Continuous integration and continuous deployment (CI/CD) configuration and management with Devops tools like Jenkins, Kubernetes.
- Configuring a Centralized Authentication management system with LDAP for developers machines.
- Cloud server Management and maintaining Backup of servers periodically.
- Shell scripting for automated tasks.
- Monitoring and maintaining logs of all servers with Nagios and EFK.
- Working with NoSQL databases like Cassandra.
- Configuration and management of Dedicated Server in Hetzner Robot and using ESXI hypervisor for vm management.
- Installation of Production release in Client servers (remotely).
- Maintaining Documents for installation instructions and FAQ for production releases.
- Working on different Cloud Service Providers such as Scaleway, Hetzner.

### **Trainee - Implementation Engineer**

#### **Xalted Information System**

Work Location: Cochin.

Period: Dec 2015 - Jun 2016 (6 months of contract)

#### **Roles & Responsibilities:**

- Installation and configuration of Linux servers for the new build environment.
- Network configuration for newly built servers.
- Configuring and monitoring LVM.
- Monitoring & troubleshooting performance related issues on the servers.
- User Management & Administration.
- File system management.
- Swap space management.

## KEY SKILLS

- Good knowledge in advanced DevOps tools like Kubernetes, Docker.
- Microservice architecture design and implementation.
- Automation for all deployment and test related tasks to improve the efficiency of the code.
- Working closely with the development team and helping them to fix infra related issues.
- Using Python scripts and Shell Scripts for automating the task to reduce the time taken for it.
- Strong debugging skills in the deployment servers and docker services.

## CERTIFICATION

- Red Hat Certified System Administrator. RHCSA
- Red Hat Certified Engineer. RHCE
- Administration in OpenStack  
Certification no: 150-142-248

## AREA OF EXPERTISE

- |                       |                             |                          |
|-----------------------|-----------------------------|--------------------------|
| ➤ DevOps Engineer     | ➤ Microservice Architect    | ➤ Server Management      |
| ➤ CloudOps Engineer   | ➤ Kubernetes Administration | ➤ Database Administrator |
| ➤ System Engineer     | ➤ Jenkins Administration    | ➤ Docker Deployment      |
| ➤ Linux Administrator | ➤ Automation Engineer       | ➤ CI/CD                  |

## TECHNICAL SKILLS

Cloud Providers	: AWS, GCP, Azure, Hetzner, Scaleway
Database Server	: MySQL, MsSQL, Cassandra
Version Control	: GitHub, GitLab, BitBucket
Build Tools	: Jenkins, Cloudbuild, GitHub Actions, Drone, Circle CI
Configuration Management Tool	: Ansible
Containerisation	: Docker
Container Orchestration	: Kubernetes, Docker Swarm
Monitoring Tool	: Nagios, Prometheus
Logging tool	: Logstash, Fluentd, Elasticsearch, Kibana
Scripting Knowledge	: Shell, Python, Groovy
Infrastructure as Code Tool	: Terraform, AWS CFT, GCP Deployment Manager
Testing Tool	: SonarQube, Veracode

## EDUCATION

- **BACHELOR OF ENGINEERING**  
Electronics and Communication Engineering  
Anna University, India