

# JAI PRAKASH BHARTI

Solution Architect with over 13+ years of expertise in DevOps & Automation

Mumbai, Maharashtra

9452400346

jpb.iiita@gmail.com

## PROFESSIONAL SUMMARY

Experienced DevOps professional with over 8+ years of hands-on experience in designing, implementing, and managing CI/CD pipelines using Jenkins for complex software applications. Skilled in integrating security and scanning tools for continuous deployment, enhancing system security in Reserve Bank of India. Proficient in cloud platforms such as AWS, with a strong background in infrastructure as code and configuration management using tools like Chef, Ansible and Terraform. Skilled in containerization technologies including Docker and Kubernetes, with a proven track record of optimizing infrastructure for scalability and reliability. Demonstrated success in collaborating with cross-functional teams to drive automation and streamline deployment processes, resulting in improved efficiency and reduced time to market. Dedicated to continuous learning and staying abreast of emerging trends in DevOps practices

## EDUCATION

Indian Institute of Information Technology, Allahabad — B.Tech in Information Technology

Jawahar Navodaya Vidyalaya, Mau - (10+2) in Science

## CERTIFICATION

Kubernetes Hands-On - Deploy Microservices to the AWS Cloud from Udemy

Terraform for the absolute beginners From Udemy

AWS Fundamentals certification from coursera .

Git & Github Master Course(2022) From Udemy

Jenkins, From Zero To Master - Industrial CI/CD Projects From Udemy

Devops culture and mindset certification from coursera

Ansible Advanced - Hands-On - DevOps From Udemy

Programming, Data Structures and Algorithms using Python from NPTEL

## SKILLS

### CI/CD Tools

Jenkins

### Configure Management Tools

Chef

Ansible

### Containerization technology

Docker

Kubernetes, Helm

### Provisioning Tools

Terraform

### Cloud computing

AWS- EC2, S3, IAM, VPC, LAMBDA, CodeCommit, ECR, Autoscaling

### Version Control

Git

### Scripting

Python

shell

### Automation

Sahi

JMeter

### Methodology

Agile/scrum

Kanban

### Operating system

Linux

Window

## LANGUAGES

Hindi, Englishh

## PROJECTS

### Prodevans Technology, Mumbai

**Designation :** Solution Architect

**Client :** Reserve Bank of India

**Tenure :** MAY 2023 - PRESENT

#### Roles and Responsibilities

- Responsible for managing the infrastructure of the **eKuber2** platform at RBI, overseeing critical applications including the **Government Portal, Commercial Bank Portal, and Core Banking Services**.
- Configured a **Logstash pipeline** to read log data from Elasticsearch, apply filtering and mutation on specific fields, and output the modified logs
- Automated the **RBI Disaster Recovery Drill process** using Jenkins and shell scripts
- Developed a comprehensive **deployment tracker** to monitor all RBI deployments with detailed information.
- Created and maintained Jenkins pipelines for automated image **deployment** processes.
- Conducted R&D on **security and scanning tools**, integrating them into pipelines for continuous deployment.
- Implemented image authentication (**Skopeo**) and scanning (**Smartcheck & Prisma**) tools for enhanced security.
- Create Plan of Action (**POA**) takes approval from RBI and executes devops tool **upgrades** with minimal disruption.
- Manage end to end **images deployment activity** in production environments during night.
- Participated in **Dr drill activities** in which application is pointed from primary data center to Disaster recovery data center.
- Configured Helm deployment setup with Egress, Ingress, Namespace, configMap, and secret.
- Resolved security vulnerabilities points identified by RBI security team after scanning.
- Managed and directed a **15-member team**.
- Produced and delivered comprehensive **weekly and monthly reports** via PowerPoint presentations to clients, followed by active participation in related meetings.
- We conduct **quarterly updates of software tools** to ensure ongoing support and address any vulnerabilities.
- Aided in **troubleshooting** application issues as required.

- Collaborated with the **JFrog team to establish a centralized JFrog Artifactory** with X-ray integration for object scanning, specifically tailored for RBI compliance

## **NimbleWork(formerly Digité), Mumbai**

**Designation** : Sr. DevOps Engineer

**Tenure** : MAR 2017 - MAY2023

### **Roles and Responsibilities**

- I have been an integral part of the DevOps team since the inception of our **DevOps journey**.
- Initiated research and development efforts on AWS and began with exploration of EC2 and S3. Conducted extensive R&D on Vagrant for VM creation in AWS and utilized Chef for software configuration on VMs. Additionally, developed a notification script in Python
- Developed an efficient **Continuous Integration pipeline (CI)** leveraging GIT, SonarCube, and Maven
- Engineered a robust **Continuous Deployment (CD)** pipeline leveraging Jenkins, Terraform, AWS, Ansible, Packer, Docker, Sahi, Python, Junit, and Mocha.
- Implemented a Jenkins-driven **pipeline for Git branch creation**, utilizing Git integration and custom shell scripting
- Developed **pipelines for testing standalone microservices** on EKS using Jenkins, Helm, and YAML.
- Successfully migrated **Swiftkanban to EKS cluster** using Helm and Infinispan, orchestrating seamless integration among diverse components (app, db, search, push, and Infinispan server).
- Led research and independently configured **InfiniSpan Server**, integrating it with product dependencies.
- Employed Terraform to generate VMs **featuring AWS Elastic IP** as an integral component of nightly pipeline operations.
- Researched and **developed Packer scripts for creating Windows images**, managing the setup independently.
- Designed and orchestrated Jenkins job configuration using Chef, Ant, and Vagrant, completing the setup independently.
- Led the creation of S3 buckets for organized object storage with version control and implemented lifecycle storage management.
- Developed Lambda functions for email notifications and parsing performance run data into CSV format upon entry into designated buckets

## **Digite Infotech Pvt Ltd, Mumbai**

**Designation** : Sr. **Automation** Engineer

**Tenure** : FEB 2014 - MAR 2017

### **Roles and Responsibilities**

- Conducted **research and development on Jenkins**, pioneering its

use to schedule builds with automation run for the first time.

- Created and managed functional automation run projects using **Sahi**, scheduling runs in a **multi-threaded, multi-node environment** for optimized runtime.
- Developed a **framework for service layer testing** using JMeter, automating processes involving multiple UIs.
- Utilized **Sahi for automated testing, scripting, and executing** comprehensive test suites to maintain software quality standards.
- Conducted load testing and **performance analysis using JMeter**, identifying and addressing bottlenecks to optimize application performance.

## **Digite Infotech Pvt Ltd, Bangalore**

**Designation** : Software Engineer

**Tenure** : APR 2012 - FEB 2014

### **Roles and Responsibilities**

- Part of Our build journey commenced with utilizing **ANT** as our build tool, **SVN** for version control, and triggering builds through **Cruise Control**
- Integral part of Our process that involves manually scheduling nightly builds at 6 PM. After all commits are completed. Subsequently, automation runs commence, lasting 12 hours, with QA validation of results conducted in the morning
- Share the automation run results are shared with the development team. Any issues identified are promptly addressed and fixed by the team before 6 PM, ensuring a seamless cycle of build iterations until a bug-free build is achieved.
- Developed numerous **Sahi functional scripts** to comprehensively validate product functionality.
- Some time collaborated with cross-functional teams to design and implement front-end interfaces using **JavaScript, HTML, and CSS**.

## **SparshSoft Pvt Ltd, Lucknow**

**Designation** : Software Engineer Trainee

**Tenure** : JAN 2010 - DEC 2010

### **Roles and Responsibilities**

- Developed and maintained responsive web pages using **HTML, CSS, and flexbox**.
- Implemented **PHP scripts** for dynamic website functionality, including database integration.

### **LINKS**

Linked In Profile: <https://www.linkedin.com/in/jai-bharti-b664b47/>

GitHub Repo: <https://github.com/jbharti/>

My blogs: <https://medium.com/@jpb.iiita>

#### **ADDITIONAL INFORMATION**

- Participant of DevOps Day 2017 held in Bangalore
- Contributed towards open source community as part of SwifOps Project on [github.com/SwifOps](https://github.com/SwifOps)
- Participant of DevOps Submit 2019 held in Bangalore