**Tophan Kumar Jena**

**DevOps Engineer**

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**Professional Experience:**

**Wipro, Chennai Apr 2022 – May 2024**

DevOps Engineer

**L&T TS, Chennai Sep 2013 – Apr 2022**

Sr. Software Engineer

**GlobaEdge Software Ltd**

Test Engineer **June 2012 – June 2013**

**Sasken communication, Bangalore Nov 2010 - Feb 2012**

Software Engineer

Career break from May 2024 to present due to recovery from a road accident.

**Professional Summary:**

DevSecOps engineer with 7 years of experience in designing, implementing, and managing complex infrastructures and application deployment. I have had the opportunity to manage a DevOps practice team in my current role, as a DevOps Lead, my primary responsibilities include overseeing the strategic direction of the team, setting goals and objectives, managing team resources, and ensuring efficient and effective delivery of DevOps services to our organization.

* Experience in CI/CD pipeline Azure DevOps (ADO) and Jenkins
* Good Understanding of Azure services including VM, Blob Storage, AKS, VPCs, app services.
* Good understanding of AWS services such as EC2 instance, S3, EKS, ELB, EBS, and more
* Experience in automating operational tasks and end-to-end CI/CD pipeline
* Have knowledge on Hoshicorp vault, implement with CI/CD pipeline and secret management.
* Good understanding of Hoshicorp Policy creation.
* Good understanding of managing AKS cluster (Kubernetes) and writing deployment manifest files.
* Have good experience on NGNIX ingress controller.
* Understanding of network security principles and experience implementing network policies and security groups within AKS clusters
* Strong experience in technical leadership for incident investigation and change management activities
* Have good experience on SonarQube for code analysis, and integration with Azure Devops
* Ability to work under pressure and collaborate in a multicultural team.
* Experience in application release and deployment, production support, and managing applications end to end
* Implemented Docker in production, worked with Docker images and containers, and deployed web applications
* Automated build flow with CI/CD using Azure DevOps and Jenkins pipeline as code
* Strong experience in automating tasks using Python and shell script.

**Technical Skills:**

* Scripting Languages: Python, shell script
* Operating Systems: UNIX, Linux
* Tools: Azure DevOps, Jenkins
* Database: PostgreSQL
* SCM Tools: GIT, GitHub, Azure Repo
* Deployment Tools: Azure DevOps, Jenkins
* Virtualization: Virtual Box
* Cloud Computing: AWS, Azure
* Container Platform: Docker. Kubernetes
* Monitoring Tool: AWS Cloud Watch, Grafana
* Iac Tool: Terraform, Ansible.
* Build Tool: Maven

**Education:**

* Masters of Computer Application in 2009

**Wipro Technology.**

**Projects**

**Project 1:** Westminster bank (Royal Bank of Scotland)

Duration: April 22 to May 24

**Responsibilities:**

* Experienced in Azure DevOps managing and automating CI/CD pipeline for Deploying software applications and implementation of Hoshicorp vault.
* Working on various aspects of the Azure cloud platform such as **designing, building, testing and deploying** software applications.
* Good experience on configuring software and copying files using python script.
* Good hands-on experience **python** automation script, PyCharm IDE and python libraries.
* Involved in managing and creating resources in **Azure using Terraform code**
* Debugging CICD pipeline failure and configuration collaboration with application team.
* Have experience on creating **E2E Azure YAML pipeline** and release pipeline in production environment.
* Develop and maintain CI/CD pipelines for applications.
* Manage Azure DevSecOps services and configurations and Troubleshoot issues related to Azure DevOps services.
* Collaborate with development and operations teams to improve software delivery processes.
* Implementing monitoring solutions to track the performance and health of Azure resources.
* Responsible for using Grafana dashboards to monitor various metrics, troubleshoot issues, and make data-driven decisions based on the visualized data
* Experience in managing AKS cluster (Kubernetes), writing deployment manifest file.
* Expertise developing ansible scripts for various security tools like Qualys, MS Defender, TrendMicro, and carbon black deployment in non-prod and prod for both AWS and Azure cloud platform
* Involved in creation of SOP for ansible configuration and integration, Qualys agent installation and MS Defender on boarding

**L & T Technology Services**

**Project 3:** CI/CD pipeline for Java application to deploy on AWS EKS cluster on multi-national banking. (Woori Bank)

Duration: May 2018 to March 2022

**Responsibilities:**

* Involved in full life cycle of the project. Requirement gathering, Analysis, effort estimation
* Good concept and Practices creating AWS resources using terraform code.
* Good understanding of Helm charts to deploy, services, ingress with Jenkins CI/CD
* Involved in setting up Continuous Deployment process using Docker.
* Built and deployed Docker containers to break up monolithic app into micro services, improving developer workflow
* Developed shell scripts for automation of the build and release process
* Implemented Docker on the production side and worked on Docker images, containers, and deployed web applications
* Manage local deployments in Kubernetes, creating local cluster and deploying application containers
* Container management using Docker by writing Docker files and set up the automated build on Docker HUB and installed and configured Kubernetes
* Create and maintain fully automated CI/CD pipelines for code deployment on EKS cluster

**Project 4:** Automobile’s application deployment CICD pipeline, Infrastructure as code

Duration: Sept 2016 to April 2018

**Responsibilities:**

* Experience managing and creating resources in AWS using Terraform code.
* Create and maintain fully automated CI/CD pipelines for code deployment using Jenkins.
* Container management using Docker by writing Dockerfiles and set up the automated build on Docker Hub
* Working on configuration management, automating infrastructure changes and deployment using Ansible
* Design and automate various user’s requirement and tasks
* Involved in writing Ansible playbook and configure on various client nodes
* Involved in managing the Inventory file.
* Involved in deploying application on tomcat web application server

**Project 5:** Application Production Support

Duration: Oct 2013 to Aug 2016

**Responsibilities:**

* Troubleshooting all the incidents which occur in production environment by checking the background logs.
* Have automated around 24 BAU tasks in UNIX by using Shell script.
* Monitoring all the jobs in Autosys (GUI) application and taking appropriate action against them if the job got failed or overrunning.
* Monitoring the EOD batches to make sure the entire critical client deliveries happen within SLA without any discrepancies.
* Investigating & troubleshooting the trade failure or any acknowledgment missing from Trade flow.
* Dumping & Loading of Autosys JIL.
* Performing Disaster Recovery activity.
* Scheduling new jobs and reports in Autosys.
* Raising Change Request and coordinate with change manager about the changes.
* Taking actions against all the incidents & Service Requests

Global Edge Software Limited

Project 6: Qualcomm Modem Automation testing

Duration: June 2012 to June 2013

**Responsibilities:**

* Exposure to 4g Infrastructure vendor (Ericsson, Apple and Nokia) 4g Volte call flow.
* Mobile device test experience with 4G Operators or with commercial handset Understanding of software development and testing concepts for wireless handsets for various air interface standards.
* Good debugging experience in QXDM and QCAT.
* Good Team player and ability to work independently.
* Developing automated test scripts and frameworks for improved mobile app performance.
* Producing clear and concise test reports and releasing notes to co-workers when needed.
* Assisting with the configuration of test environments.

Sasken Communication

**Project 7:** Sony Mobile application testing

Duration: Nov 2010 to April 2012

**Responsibilities:**

* Involved in debugging test scenarios in QXDM and QCAT
* Application deployment on various Mobile apps for Softbank operator ✓ Involved in executing test scenarios using RTD
* Involved in Problem reporting using Rational Clear Quest
* Involved in executing IRAT test cases for soft bank
* Involved in executing IMS test scenarios
* Involved in regression and functional testing for each software release
* Involve in executing protocol regression testing scenarios for each new build

Place: BHUBANESWAR. Odisha