

**Pinak Pani Nath**

**DevOps Engineer**

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7760383591

10 Years 0 Month

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**Key Skills**

**DEVOPS**

**business analysis**

**agile methodology**

**business intelligence**

**data analytics**

**data modeling**

# About me



Involved in the creation of a complete DevOps CI-CD pipeline by integrating Git, Maven, Jenkins, Ansible, Docker, Tomcat, Terraform, Kubernetes and AWS Cloud to automate the deployment process.

Recommended necessary DevOps tools to be used to cli.

# Profile Summary

"Dynamic and results-oriented DevOps Engineer with a proven track record of designing, implementing, and optimizing end-to-end CI/CD pipelines and cloud infrastructure. Leveraging a strong background in system administration, software development, and automation, I excel in streamlining development workflows, enhancing deployment processes, and maximizing system reliability.

My expertise spans a wide range of DevOps tools and technologies, including but not limited to Jenkins, GitLab CI/CD, Docker, Kubernetes, Terraform, and AWS. I have a deep understanding of containerization, orchestration, and infrastructure as code (IaC) principles, enabling me to architect scalable, resilient, and cost-effective cloud environments.

In addition to my technical prowess, I possess strong communication and collaboration skills, allowing me to effectively liaise with cross-functional teams and stakeholders to drive project success. I thrive in fast-paced, collaborative environments.

# Education



**B.Tech/B.E.** 2011

## Visveswaraiah Technological University (VTU)

63%

# Work Experience



Aug 2022 - Present



**data visualization**

**pandas data frame**

**data management**

**Stake holder management.**

**Project Management**

**Technical Skills**

**TABLEAU, SQL Server**

**Microsoft Office MSBI, PowerBI**

**Agile Project Management,UiPath JIRA and TFS**

**Azure,AWS, MS Visio Rally,Devops,TFS,Jira,Agile**

**Power BI,Python Pandas,Data Analysis SQL,Data Visualization,Risk Assessment**

**Performance Tuning,Visio,GAP Analysis**

**Courses & Certifications**

Azure ai fundamentals (ai-900) by microsoft

**Personal Details**

**Date of Birth**

11-September-1987

**Gender**

Male

**Address**

BTM 2nd Stage Lake Road 20th Cross 16th Main

City

DevOps Engineer

## Genpact

Implement and maintain infrastructure as code using tools such as Terraform and CloudFormation to provision and manage cloud resources on AWS.

Define and manage configuration templates for various environments, ensuring consistency and reproducibility across deployments.

Design, implement, and maintain CI/CD pipelines to automate software delivery processes.

Ensure the seamless integration of code changes across development, testing, and production environments.

Develop and manage infrastructure as code using tools like Terraform or CloudFormation.

Automate provisioning and configuration of infrastructure resources on cloud platforms such as AWS, Azure, or GCP. Containerize applications using Docker and orchestrate containers using Kubernetes for scalability and manageability.

Using GitHub as a secure means of storing and sharing Playbooks and Docker files with team members.

Optimize containerized environments for performance, resource utilization, and high availability.

Manage cloud infrastructure, including compute, storage, networking, and security services.

Implement cloud cost optimization strategies to ensure efficient resource utilization.

Implement security best practices and compliance standards for infrastructure and applications.

Conduct regular security audits, vulnerability assessments, and penetration testing.

Manage configuration drift and ensure consistency across infrastructure components using tools like Ansible, Puppet, or Chef.

Automate configuration management tasks to enforce desired state configurations.

Coordinate and manage software releases, including

versioning, tagging, and deployment.

Ensure smooth rollout of releases with minimal downtime and rollback procedures in place if necessary.

Respond to and resolve incidents promptly, following

established incident management processes.

Conduct root cause analysis for incidents and implement preventive measures to mitigate future occurrences.

Collaborate with cross-functional teams including development, QA, and operations to streamline processes and resolve issues.

Communicate effectively with stakeholders to provide updates on project status, issues, and resolutions.

Maintain comprehensive documentation of infrastructure configurations, processes, and procedures.

Facilitate knowledge sharing sessions and contribute to internal wikis or documentation repositories.

Develop automation scripts and workflows using scripting in Shell to streamline operational tasks.

Bengaluru

Country

INDIA

**Marital Status**

Married

Identify opportunities for automation and optimization across the DevOps lifecycle.

Ensure adherence to service level agreements (SLAs) and key performance indicators (KPIs) for availability, performance, and reliability. Continuously monitor and optimize processes to meet or exceed SLA targets.

Jan 2022 - Sep 2022

DevOps Consultant

## Birla soft

Launched numerous EC2 Instances with requisite OS and configurations for deploying and utilizing various DevOps tools.

Oversaw the scaling of EC2 instances based on resource demands, ensuring optimal resource utilization.

Implemented access control on EC2 instances through user and group account management, ensuring restricted access as per requirements.

Managed port configurations and key access to prevent unauthorized entry.

Installed and configured Linux operating systems from RedHat and Debian families.

Conducted comprehensive Linux training sessions for team members, utilizing various Linux commands extensively.

Administered Linux systems, handling user administration, permissions, backups, package management, services, SSH connections, and resolving OS-related issues.

Utilized GitHub for securely storing and sharing Playbooks and Docker files among team members.

Integrated Git with Jenkins in CI/CD workflows, automating source code retrieval using Pull SCM.

Provided training to team members on Git and GitHub usage, emphasizing secure file storage and sharing. Granted secure GitHub access to clients using SSH keys for modifying application code.

Created private repositories as per project requirements, and managed forking and cloning from client GitHub accounts.

Established secure connections between developers' and testers' machines and GitHub using SSH keys, ensuring enhanced security.

Created Docker images using Dockerfile and containers, stored on Docker Hub for team use.Utilized web containers with port mapping for testing UI team-designed websites, ensuring continuous availability.



Employed volume mapping for transferring files between Host and Container, facilitating collaboration with UI Teams. Conducted weekly Docker training sessions for team

members.



Created Public and Private repositories on Docker Hub for image sharing among team members and clients.

Provided clients with Docker images containing modified

.war and .jar files for validation.

Tested DevOps tools using Docker images instead of EC2 instances, reducing AWS billing expenses.

Established Password-less SSH connections between Ansible nodes and server using SSH keys for seamless operations.

Automated management of over 500 Ansible nodes using playbooks.

Developed playbooks for routine administration tasks like file, folder, and package management.

Implemented restricted privilege accounts on Ansible nodes for enhanced security.

Developed and executed playbooks for installing applications such as Web, Tomcat, Java, and Python. Integrated Ansible with Jenkins for automated deployment of .war files to Tomcat containers as part of CI/CD processes.

Jan 2021 - Jul 2021

Business Analyst (PMO)

## Conduent Business Service

Solved day-to-day issues raised by developers and testers by remotely controlling their machines with RDP and SSH, and resolved issues raised by developers and testers.

Jenkins jobs console output is sent to developers and testers as soon as a build fails. This is to allow them to take the appropriate steps to resolve the issue.

Connected maven to Jenkins to automate the process of building the source code written by developers and to create the product by running maven jobs.

Helped developers as far as the creation and management of Maven directories, adding code to them, and pushing to GitHub.

With the help of Jenkins plugins, I have connected Jenkins to DevOps tools such as Git, Maven, Ansible, Docker, and Tomcat to automate the deployment of our end products to production with the help of CI-CD.

Using Jenkins roles, created several user accounts to provide limited access to users in Jenkins to improve security.

Integrate Jenkins Master with internal and external worker nodes to distribute the workload from Jenkins Master to worker nodes.

Jenkins Job build history was sent in an automated manner to team members for action if any errors occurred.

Setting up upstream and downstream jobs to build jobs continuously without manual intervention as part of CI-CD. Worked on some Jenkins concepts such as View, Poll SCM, Build Periodically, Web Hooks, Jenkins Plugins, and Global

Configurations.

Scheduled some jobs that require frequent execution using Poll SCM.

Setting up the pipelines to automate the flow of deployment process.

Connected CloudWatch with SNS for monitoring and alerting purposes.

Monitored CPU and RAM usage on Web servers and Database servers by creating automated alarms and sending notifications with the help of SNS (Simple Notification Service).

In order to receive notifications regarding the status of servers, I have created SNS topics for different teams and added subscribers to those topics.

Created customized graphs and dashboards in CloudWatch for ease of monitoring.

Billing alarms were created for AWS accounts and suggested mechanisms for reducing charges and good practices.

In order to meet the project requirements, both default and detailed monitoring have been used in cloud watch.

Used Terraform to manage AWS cloud infrastructure in the areas of EC2, S3, IAM, Load Balancer, Auto Scaling, and VPCs.

May 2015 - Jan 2021

Business Analyst

## Amazon India Pvt Ltd

Managed topics and subscriptions for alerts for different teams.

Incorporated entire Kubernetes cluster into CI-CD pipeline for automated deployment of end products.

Tested websites before releasing them to production environments using pods.

Used Pod annotations to describe the objects better. Created multi-container pods as needed.

Organized and managed pods using pod labels (Equality and Selector based).

Used node selectors to restrict pod creation to certain nodes with sufficient resources.

For scaling and auto-healing of pods, we used replica sets and replication controllers.

For versioning of pods, a deployment object was created. Established Pod network using service objects such as Virtual IP/Cluster IP, Node Port, and Load Balancer.

Setup Volumes such as emptyDir, hostPath, and persistent Volumes to store data in a safe and secure manner upon accidental termination of Pods and Nodes.

Checked pods and their applications using health check mechanisms such as Liveness probes and Readiness probes. Managed and controlled Kubernetes resources using Name spaces.

Utilized Secrets and ConfigMaps Kubernetes objects for better protection of data and privacy.

Implemented Resource Quotas to optimize the CPU and memory usage of nodes.

Worked with Jobs, Parallelism, Cron Job & Init containers daily.

Gained a better understanding of pod life cycles, pod conditions, and container states.

Apr 2014 - Apr 2015

Procurement Analyst

## Flipkart Internet Pvt Ltd

Mar 2012 - Apr 2013

Production Supervisor

**SKF India Ltd**

# Projects



806 Days

## Automate Process for Discovery

To automate AS-IS process

181 Days

## Automation of HR Pay roll

To automate the HR payroll of EMEA countries is the primary task

2072 Days

## Amazon Prime Now Last Mile Scheduling

The purpose of this project is to cover the maximum Last mile Order scheduling as per the set demand based on U

