

SANAT PANDA

DEVOPS ENGINEER



PROFESSIONAL SUMMARY

Currently working as a Analyst at Deloitte, gaining hands-on experience in AWS Cloud. Skilled in using DevOps tools such as Docker, Kubernetes, and Jenkins to improve workflows and support automation. Eager to apply my technical skills and knowledge to real-world business challenges while continuously learning and growing in the field of data analytics and cloud technologies.

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SKILLS

- Scripting Language : Python, JavaScript
- DevOps: Docker, K8S, Jenkins, GitHub, Terraform, Ansible
- Operating System : Linux, Windows
- Cloud Technology : AWS
- Database : MySQL, MongoDB

WORK & RESEARCH EXPERIENCE

AI & Data Engineer | Aug 2024 - Present

Deloitte CEC - Bhubaneswar

- Took training for tools like Hadoop, Kafka, Power BI, Tableau.
- Conducted experiments using different type of automation platforms for DevOps.
- Collaborated with a research team to explore low code platforms (client specific tools)

PROJECTS

TWO-TIER FLASK APP DEPLOYMENT

October 2023 | <https://github.com/sanatkp84/two-tier-flaskapp.git>

- Led the deployment of a two-tier Flask-based Todo application with a MySQL backend, concentrating on optimizing scalability for a large user base.
- Utilized Docker and Docker Compose for effective containerization, ensuring portability and version control through Dockerhub.
- Automated Kubernetes cluster setup using kubeadm and later transitioned to AWS EKS for enhanced fault tolerance.
- Implemented Helm for systematic packaging of Kubernetes manifest files, streamlining deployment and configuration management.
- Orchestrated a multi-node cluster setup, deploying the application with a load balancer for efficient traffic distribution.

SET UP CI/CD PIPELINES USING JENKINS

August 2023 | <https://github.com/sanatkp84/Node-todo-app.git>

- Initiated the development of a Continuous Integration/Continuous Deployment(CI/CD) pipeline to automate the deployment of a Nodejs Todo application hosted on an EC2 instance.
- Provisioned an EC2 instance and installed Jenkins to establish a CI/CD environment.
- Cloned the Todo app code from GitHub and Dockerized the Todo app through the creation of a Dockerfile, ensuring portability and reproducibility.
- Integrated GitHub with Jenkins, employing public and private SSH keys for secure communication.
- Configured a Jenkins job to execute Docker build and run commands within the pipeline.
- Implemented GitHub webhook for seamless automation of the deployment process.

CREATION OF INFRASTRUCTURE USING TERRAFORM

July 2023 | https://github.com/sanatkp84/Terraform_Mega_Project.git

- Implemented Terraform modules for organized, reusable resource management.
- Streamlined deployment with "Terraform apply" command. Incorporated EC2 instances, S3 Buckets, and DynamoDB tables within Terraform modules for diverse infrastructure needs.
- Utilized variable inputs for adaptability, enabling easy customization for different environments (Dev, QA, Production).
- Implemented secure tear-down with "terraform destroy" for efficient resource cleanup.

CERTIFICATIONS

- AWS Certified Cloud Practitioner (CLF-C02)

Credential Link : https://www.credly.com/badges/918cc621-af7e-4813-8859-0f198cd42329/public_url

- AWS Certified Developer Associate (DVA-C02)

Credential Link : https://www.credly.com/badges/ae5b7a43-68a0-4121-a9bd-47a32883eee4/public_url

- AWS Data Engineering (DEA-C01)

Credential Link : https://www.credly.com/badges/d6cf17f5-ead4-458e-a6ab-d12d703cc78b/public_url

EDUCATION

Bachelor of Technology | 2020-2024

GITA Autonomous College, Bhubaneswar

- Computer Science & Engineering | GPA: 9.3

12th | 2019-2020

Jupiter Higher Secondary School, Bhubaneswar

- Science | Percent : 72.8
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