VISWATEJA DAKARAJU

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OBJECTIVE:

Results-driven software testing professional with Three years of experience in test automation, continuous integration/continuous deployment (CI/CD), and quality assurance (QA). I seek to transition into a DevOps Engineer role to leverage my skills in automation, CI/CD pipelines, and collaborative development processes. I aim to contribute to efficient, high-quality software delivery while fostering a culture of continuous improvement and operational excellence.

KEY COMPETENCIES

CI/CD Concepts
Scripting and Automation
Version Control Systems

Agile Methodologies
Quality Assurance (QA)
SDLC Knowledge

Collaboration and Communication
Problem Solving
DevOps Mindset

PROJECTS

1)Jenkins CI CD pipeline for flask application

- Set up a Jenkins pipeline for a Python-based Flask web application, automating the process from build to deployment.
- Installed Jenkins on a virtual machine and configured it with Python and relevant libraries for building and testing.
- Created a Jenkinsfile in the root of the repository to define the pipeline stages, ensuring easy customization and scalability.
- Developed the pipeline with the following stages:
  - Build: Installed Python dependencies using pip.
  - Test: Executed unit tests with pytest to ensure code quality and stability.
  - Deploy: Deployed the application to a staging environment upon successful test results.
- Configured triggers for automatic pipeline execution whenever changes were pushed to the main branch, providing continuous integration.
- Implemented email notifications to alert stakeholders about build outcomes, allowing for quick response to build issues.
- Achieved a significant reduction in deployment time by automating the build and deployment process.
- Ensured code integrity and project stability by incorporating rigorous testing into the CI/CD pipeline.

2)Building theCI/CD pipeline

- Set up a GitHub repository by creating a simple HTML project and pushing the code to a remote repository. This provided a version-controlled source for the project.
- Configured a server environment by setting up an AWS EC2 instance (or a local Linux machine) with Nginx to host the HTML project.
- Wrote a Python script to check for new commits using the GitHub API. This script allowed for monitoring changes to the GitHub repository.
- Created a Bash script for deployment. The script cloned the latest code from GitHub and restarted Nginx, enabling automatic deployment when new commits were detected.
- Configured a cron job to automate the Python script, running it at regular intervals to ensure the CI/CD pipeline checked for new commits and triggered the Bash script for deployment.
- Tested the CI/CD setup by making a new commit to the GitHub repository and verified that the changes were automatically deployed to the server, ensuring the entire pipeline worked as expected.

3)Git and Git hub process

- To commit changes, first stage them with git add <file> for specific files or git add . to stage everything. Then create a new commit with git commit -m "your message".
- After committing, push your changes to a GitHub repository using git push origin <branch>, where <branch> is the name of your current branch, like main or develop.
- To pull updates from GitHub, use git pull origin <branch>. This command syncs your local repository with changes from the remote branch.
- To change branches, switch with git checkout <branch>. If you need to create and switch to a new branch, use git checkout -b <branch>.
- To copy a branch, create a new branch based on an existing one with git checkout -b <new-branch> <existing-branch>.
- To remove a local branch, delete it with git branch -d <branch>. If the branch contains unmerged changes, force deletion with git branch -D <branch>.
- To remove a remote branch on GitHub, use git push origin --delete <branch>. This action deletes the branch from the remote repository.

Professional Experience :

Dalvkot utility Enterprices **June-03/21 Present**

Software Test Engineer

Created various project specific valuable assets such as knowledge transfer documents, test plan, defect summary reports and lessons learnt documents, successfully delivering 3 releases involving UAT and regression testing.

Projects Summary:

Project 1: Vykohms (Hospital management system)

Team size: 6,
Duration: 1year 6months,
Domain: Healthcare,
Client : Vydehi Hospital.

Project 2: Dalvokot Pharma IMS ((Duration: 5 months)

Team size: 6,
Duration: 5 months,
Domain: Inventory management system
Client : Dalvkot Pharma

Education:

Bachelor Of Engineering
VTU Bangalore | 2016 - 2020
Computer Science Engineering

Board Of Intermediate
Andra Pradesh| 2014 - 2016
Science (PCM)

School Of Secondary Education
Andra Pradesh| 2012- 2014
A.PState Education