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Summary

Talented Python Automation Engineer proficient in all phases of the software development life cycle. Adept at working with agile methodologies to accomplish project milestones according to specific time frames.

Able to use any technology to complete work.

Highly organized and detail-oriented professional in the field of automation.

Effective communication, relationship building and time management skills. Considered driven, talented, smart and a valuable addition to any team.

Experience



Python Developer

Dell Technologies

Sep 2020 - Present (6 months +)

Security Scan tools (Checkmarx, BlackDuck, AppScan and Twistlock) integration with Jenkins

Responsibility:

To install and configure Jenkins on windows VM

To integrate Jenkins with the code repository (Gitlab) to pull the latest code

To download,install and configure the security scan plugins in Jenkins

To run the scan from Jenkins using the code on the repository

To publish the scan results with vulnerabilities reported (Critical, High, Medium and Low)

Technologies used:

Jenkins, Git, Groovy, CI/CD and Agile



Python Developer

Dell Technologies

Nov 2019 - Present (1 year 4 months +)

SDL Scorebot:

Customers (users) of ScoreBot is provided a REST API interface exposed via the ScoreBot service running on PCF

Responsibility:

To create a REST API as an user interface to the end user

Functionality:

The user will provide the SourceofTruthID to get the score of the system

SourceofTruthID is the TrouxID or ProductID

Each 'System'(application/product) may have multiple projects associated with it in each SDL services.

Scorebot API uses this SourceofTruthID to fetch the respective SDL service associated with projects

for last scan findings by accessing the DB related to the scanning tools (HCL AppScan, Checkmarx, Fortify and Twistlock)

The findings are sorted out of which a project finding is chosen based on a severity(Critical/High/Medium/Low). The findings will be pumped to further transformation to get the final score of the application with individual SDL service and aggregated SDL service score

The security findings are then provided as an output to the end user in the form of JSON

Technology:

Flask - Web framework for REST API

Pytds - To access the DB of scanning tools

Pandas - For data mining

PCF - To deploy the app

Gitlab : Code Repo and CI/CD

Extra feature: Another python script is written to access the REST API by passing the system ID in the command line and store the API result in the form of excel. This feature will help the user to store the output in excel for future reference



Python Developer

Dell Technologies

Jan 2019 - Oct 2019 (10 months)

SDL Scorecard:

Description:

The Dell EMC Security Development Life Cycle (SDL) is the set of activities required throughout the product life cycle to build security resiliency and consistent security capabilities into the products and to promptly respond to externally reported security vulnerabilities

Scorecard: The SDL scorecard is the mechanism used to capture the security posture of a product

Responsibility:

To write a python script which will migrate the older scorecard to the latest one with all the latest data added

Functionality:

The user will pass the old scorecard data and the python script will migrate it to the latest

The python script comes with the command line utility to accept the old scorecard and provide the latest scorecard

Technology:

Openpyxl, xlrd and xlwt - For excel related automation

Django - For migrating the scorecard with command line utility

Portal:

The user interface that the user accesses to store and gather information for each product in Dell

It provides the user with the ability to view the products that they are championing, make modifications, upload files or artifacts necessary to the SDL process or view

Responsibility:

To write the python script which will accept the scorecard, validate the scorecard and upload the scorecard to Jira

Functionality:

The user will upload the migrated scorecard for the specified product

The script is triggered in the back end to validate and verify the scorecard for errors

If no errors, the scorecard is successfully uploaded to the Jira ticket created for a product in the form of JSON

If errors, the user will be guided to fix the errors and re-upload again

Technology:

Django - To create user interface in the form of web portal

Openpyxl, xlrd, xlwt - For excel related automation

Github - Code Repo

Jenkins - CI/CD



Analyst App Dev-Automation

Microland Limited

Nov 2015 - Jan 2019 (3 years 3 months)

Project 1:

Autodesk Automation

May 2018 – Sep 2018

Project description :

Infrastructure as a code Automation:

The use-cases automated were CPU, Memory, logical disk space and SNMP for both windows and Linux servers

The logic monitor is the tool used to monitor every device in the infrastructure. Each and every usecase is set with a threshold value. When a threshold is reached for a specific usecase an alert is generated and updated on Bigpanda which is an event monitoring tool.

Bigpanda then creates a ticket on Service-now and also triggers AWS lambda function for a particular usecase

The python script is written to troubleshoot each and every usecase using paramiko and pywinrm module. Once the troubleshooting is done the output is published to the Service-now using REST API access

For ping issue, the script is written in such a way that if the VM is down , that particular VM is brought up by connecting to the VCenter using REST API access

It is an end-to-end automation

Technology: Python(pywinrm, paramiko), AWS(Deployment)

Project 2:

Project description:

To fetch the RPO status from the IBM iseries server, convert the status into an excel format and mail the report to the team automatically (end to end automation).

Project 3:

Vytal Vault Automation for Serco

Jul 2017 – Sep 2017

Project description:

To read the VV server details from the auto generated mails, convert the server details into an excel format and mail the report to the team automatically (end to end automation)

Project 4:

RSA Soft Token Automation for Serco

Jun 2017 – Aug 2017

Project description:

To launch the RSA Soft token, enter the pin, copy the passcode and paste it in the URL in order to enable VPN connection using PyAutoGUI module

Education



dr.t.thimmaiah institute of technology

Bachelor of Engineering (B.E.), Computer Science

2011 - 2015

paper presentation

coordinating college events

Licenses & Certifications



GIAC Python Coder (GPYC) - SANS Institute

Issued Jan 2020 - Expires Jan 2024

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Flask Training - LinkedIn

AaWVuPRxtpIIImJ_Ghv08oarwjIS



Machine Learning and AI Foundations: Value Estimations - LinkedIn

ASkUgjEd4pJa5x48kIAuLwfKz0zq



Learning Jenkins - LinkedIn

AbsrXHOTVtdV-d-1oCbQiu4OH1Na

Skills

Agile Methodologies • Python (Programming Language) • Pandas (Software) • Flask • Django • Continuous Integration and Continuous Delivery (CI/CD) • Jenkins • Gitlab