

MAYANK SINGH

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Cloud, Storage & Infrastructure Automation Architect/Developer

Professional Summary:

- Specializing in integration and automation for VMware cloud computing and Microsoft Windows technologies, with 7+ years in the software development industry. Expertise includes design, development, and implementation of enterprise management and automation software. Combines programming background with superior customer relationship management and technical writing to deliver high-quality, maintainable solutions to address gaps with technologies integration.
- Providing Automation development expertise and support on PowerShell and vRO development work to multiple high profile projects, working as part of the Technology Design (Engineering) team.
- Orchestration of Private Cloud: Developed several workflows in JavaScript using VMware VRO to orchestrate and automate tasks related to provisioning of resources, deployment, and integration of distributed storage components in cloud solution..
- Automated self service provisioning for Storage products like NetApp, Unity and HNAS.
- Developing the Test driven and Data driven test cases/methods for the new private cloud application.

Technical Skills:

Scripting: PowerShell, VB Script, JavaScript, PowerCLI, AutoIT and Batch.

Programming language: C# and Python

Virtualization : VMware VSphere and vRealize Orchestrator

Windows Packaging(MSI Technology): InstallShield 2013, AdminStudio 2013 and APP-V 5.0

Deployment Tool: Microsoft System Center Configuration Manager(SCCM) and IBM Tivoli Provisioning Manager

Operating System: Windows 8.1/7/XP and Windows Server 2008/2012 R2

Databases: ORACLE 9i/11g and MySQL

Backup and Replication Tools: Veritas NetBackup and Arcserve RHA

PROFESSIONAL EXPERIENCE

COMPANY: Citicorp Services India Ltd. (June, 2016 - Present)

I am presently working in CATE/CTI (Citi Architecture and Technology Engineering) division and building virtualized environments for desktop and Cloud deployments at the largest scale. A technical role utilising the VMWare product stack (vRealize Orchestrator) to deliver IaaS into Citi Bank's private cloud infrastructure and orchestrating Citi Storage products automation using vRO with multiple releases. Designed and developed VMWare Orchestrator custom workflows with the focus on REST API third-party integration to other systems of record and demand for services.

Role: Application Development Programmer Analyst(Individual Contribution Role)

Project 1: Object Storage (Citi S3 Storage) automation (Confidential)

Web Service Interface- REST API

In my current role, i am working within the Cloud Services Global Engineering team building Citi dedicated Private Cloud Offering - Object Storage. My responsibilities include design and engineering of the Automation layer using VMware private cloud tools such as vRO and vRA.

- Did self service automation provisioning for below S3 services.
 - Request to create and delete vaults
 - Quota Management
 - IP ACLS
 - Credential reset
 - Ownership transfer
 - Usage Info etc..
- Developed REST APIs using JavaScript, vRO workflows and APIM (YAML) to simplifies overall COS management and offered ease-of-use for all Cloud and On-Premise customers.
- Wrote unit tests and automated several system integration and path tests for continuous regression in Python.
- Scale systems sustainably through automation and evolve systems by pushing for changes that improve reliability and velocity.
- Implement and maintain monitoring and alerting solutions that help discover failures in a timely fashion and then to identify root cause and fix issues.

Project-2: Replication as a service- Arcserve RHA automation (Confidential)

Web Service Interface- SOAP XML Web Services API

- Worked as Automation developer for Arcserve RHA– a host based replication tool.
- Designed, developed and implemented solution on Private cloud that increased the customer base and product deployments growing the requirement multi-fold. Design and implement CLI based PowerShell application for user account and event logging management. This application is used by the members of the L3 team. Hence, contributing not only to productivity but also to security through consistency and integrity

COMPANY: CompuCom (Jan, 2016 – May, 2016)

Automate IT processes for various clients. Help reduce the amount of tedious tasks that business groups throughout the company have to complete on a daily basis by leveraging multiple technologies.

Role: System Integrator

- Developed PowerShell scripts to automate Windows server and SCCM related operations/tasks.
- Responsible for creating deployment packages and custom applications in an enterprise environment.

COMPANY: Tata Consultancy Services Ltd (Mar, 2013 – Dec, 2015)

Technologies/Tools used: PowerShell, VBScript, C#, App-V, SCCM 2012, InstallShield, AdminStudio, Nagios, ActiveDirectory, WMI and SysInternal

Role: Software Developer

- Use PowerShell Scripting, to create ad hoc or scheduled custom reporting out of AD and other sources of data along with Nagios monitoring.
- Create custom PowerShell automation for various tasks including user accounts provisioning and de-provisioning, custom alerting and scheduled reporting.
- Improved performance of level 1 and level 2 support teams by creating automation solutions using PowerShell such as build a client troubleshooting CLI tool for Service desk to troubleshoot common issues effectively without logging into a user machine etc.
- Delivered Automation solution that was written predominantly in PowerShell CLI along with i web services (REST and SOAP) interaction.

- Extensively worked on Application Packaging with tools like Install shield, AdminStudio and Virtualization using App-V.
- Developed PowerShell wrappers for application packages to deploy them via SCCM into enterprise environment with about 50 000+ devices worldwide.
- Developing and supporting scripts used in the region wide deployment of Windows 7 clients, Office 2010, user folder management and file share provisioning, quota management & automation, automated data migrations, bulk Active Directory updates, along with other infrastructure tasks driven out of organisational change.

EDUCATION

Bachelor of Engineering in Computer Science
• RGTU University • Bhopal, MP • 2012