Suraj Kumar Singh

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PROFESSIONAL SUMMARY

Infrastructure Automation Engineer with 3+ years of experience specializing in automating cloud and on-premise infrastructures using PowerShell, Ansible, and Python. Skilled in designing CI/CD pipelines, orchestrating patch management, and improving system compliance across hybrid environments.

TECHNICAL SKILLS

Languages & Frameworks: Python, PowerShell, Ansible
Automation & DevOps: Ansible, AWX Tower, Jenkins, Docker, Git, CI/CD Pipelines
Cloud Platforms: Microsoft Azure
Tools: Ansible Tower, Stackstorm
Concepts: OOPs, System Design, CI/CD, Infrastructure as Code (IaC)
AI/ML: Generative AI Basics, Prompt Engineering

WORK EXPERIENCE

WIPRO TECHNOLOGIES   **Bangalore, India**
April 2022 – Present

Infrastructure Automation Engineer
- Led end-to-end automation processes, encompassing requirement gathering, design creation, script development, and comprehensive end-to-end testing across **20+ accounts**.
- Achieved further cost reduction and increased efficiency for the company.
- Generated 05-10 impactful use cases resulting in effort reductions of more than **80 hours** per month.

Key Responsibilities:
- Developed an Infrastructure as Code (IaC) based compliance report solution using PowerShell, Python and Ansible, fetching data from VMware vCenter, Linux servers (via RSA keys), and WSUS/SCCM, enhancing daily VM trend analysis and reporting via Ansible Tower and Jenkins pipelines.
- Designed and implemented a patch management automation framework for **1000+ Linux servers** using Ansible and ServiceNow API integration, automating change request creation, patch deployment, and compliance reporting across hybrid cloud environments.
- Engineered a full automation pipeline for patch management across Windows, Linux, and database servers, incorporating rigorous pre and post-patching health validation checks to ensure system stability.
- Designed and implemented a comprehensive automation solution for managing Azure virtual machines, covering tasks such as VM start/stop, resizing, backup validation, and virtual hard disk expansion, utilizing PowerShell and cloud-native technologies.
- Developed a standalone Python script to automate copying and refreshing of MS SQL Server tables across environments.

Summary of Key Achievements
- Automated patch management across 1000+ servers, saving **70+ hours** per month.
- Developed an IaC compliance reporting tool, improving audit response time by **40%**.
- Reduced human error and achieved over **30%** effort reduction.
- Mentored junior engineers and standardized automation templates across teams for improved delivery consistency.

EDUCATION

GITA Autonomous College, Bhubaneswar, India
Bachelor of Technology (B.Tech) in Computer Science | CGPA: 9.5 | 2022

Sri Shankar College, Sasaram, India
Higher Secondary Certificate (HSC) | 2018

CERTIFICATION

Azure: AZ-900 (Fundamentals)
Red Hat: RH294 (Linux Automation with Ansible), RH124 (System Administration 1), RH134 (System Administration 2)