

# SMRUTI P MOHANTY

Australian PR GRANT: 0049547780313

\* INNOVATE IMPLEMENT IMPROVE ITERATE \*

Virtualization, Python, Java, Automation, Linux

## skills

Linux  
Python, Java, Perl, Shell  
Automation  
VMware Technologies: Storage, Compute, Networking  
Containerization: Docker  
CI/ CD: Jenkins, Ansible  
Databases (Oracle, Nonstop, Impala, PostgreSQL, MySQL)  
SVN, Perforce  
Networking: TCP, Routing, Switching  
Web2Py Framework  
ALM, Quality Center, Bugzilla

## contact



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[github.com/2spmohanty](https://github.com/2spmohanty)

## about

- 13 years' experience in Largescale Distributed Products and Application software engineering projects.
- **Certifying the scaling limits of vSphere products and its associated plug-ins by implementing vSphere solution in largescale with simulated customer workloads.**
- Coordinate with VMware kernel, products (vSAN, NSX etc.) and management teams to gather latest features for design, implementation and testing vSphere integrated solution at scale to ensure that features work seamlessly end-to-end, and maintain product extensibility and compatibility.
- Lead the development of new automation framework, utilities, monitoring tool and integrated system design by collaborating with other senior engineers and mentoring junior engineers.
- Identify, triage, reproduce, diagnose, and resolve issues discovered in the product.
- Strong python programmer with good knowledge of VMware pyVmomi python SDK and python functional programming.
- Good Core Java Programming skills.
- Experience in building automation frameworks following CI/CD, DevOps principles and agile methodology.
- Experience in docker containerization.
- Excellent knowledge on **TCP/IP, DNS, DHCP, Routing, Switching, Software Defined Network, Firewall.**
- **VMware Technologies:** vSphere , vCenter Administration, vSAN, NSX, Site Recovery Manager, VCHA, Content Library, ESX Hypervisor, HA, DRS, vMotion, Host Profiles, Auto Deploy, pyVmomi SDK, vSphere Java SDK
- **Linux:** File Systems, Server Hardening, Ansible Automation, Performance.
- Assisting Customer facing support engineers in resolving critical incidents, updating patches and conducting customer training session for product implementation.

## EDUCATION

B.E. Electronics Engineering  
Berhampur University, India  
2002 - 2006

## CERTIFICATION

VCP Datacenter Virtualization  
AIX  
Oracle Database  
IBM Certified DB2 Professional

# professional experience

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2015 –2020

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## *Senior Member of Technical Staff, VMware R&D, vSphere Largescale Distributed Team*

- Adopt/Develop automation frameworks for Software defined datacenter.
- Reviewing automation, providing sign-off for code reviews, project plans, assigning technical work and reporting project handoffs to senior management.
- Participating in customer issue resolution, regression triage and ensuring smooth project delivery pertaining to scale.
- Designed and implemented CI/CD framework to setup large-scale distributed systems (compute/storage/ networks) and run simulated customer workloads to certify the product scale.
- Designed and created framework to identify desired/ ideal concurrency of vSphere tasks. (Cloning, Migration, Power Cycles, Snapshot etc. ). A brief implementation can be seen here : <https://github.com/2spmohanty/Performance>
- Created utility tools and dashboard to monitor health, performance, capacity & troubleshoot vCenter, NSX, vSAN deployments.
- Developed numerous scripts and provide an easy interface to launch automated vSphere Tasks. A brief sample can be seen here: <https://github.com/2spmohanty/vcenter-automation>
- Developed wrapper on GoLang vSphere SDK and provided easy method calls for the end users. A sample code base is checked in at : <https://github.com/2spmohanty/gosphere>
- Deploying, provisioning, monitoring and troubleshooting VMware Datacenter solution.

2014 - 2015

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## *Software Engineer IV, Hewlett-Packard, Non-Stop SQL/MX Database (R&D Unit)*

- New Feature Analysis, Research Based Testing on SQL/MX DB Server.
- Created CI/CD pipeline jobs to setup instances to test features related to database ACID properties.
- Develop, enhance and maintain the build, deployment and configurations for continuous integration and automate regression and acceptance testing.
- Write Automation suites, execution, bug detection and reporting.
- Troubleshooting problems and incidents related to databases & servers.
- Monitored performance in a highly scalable environment and troubleshoot incidents.
- Simulate customer workloads and reproduce customer specific issues and drive root cause analysis.

2007 - 2014

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## *Application Programmer, IBM Corporation*

### *Project Consultant, AT&T Headquarters, Atlanta, USA 2009-2012*

- Worked with AT&T as consultant from IBM in largescale multiple telecom OSS/BSS projects.
- Prepared Test Execution Plan, Test Readiness Review, Test Process, Test cases.
- Created pytest framework for backend order and billing cycle tests.
- Improved efficiency and reduced test cycle by increasing automating test script execution by 70%.
- Increased test artefact documentation to 100% across all applications supported.
- Coordinated accomplishments, plans and issues as well as any risks to the project's progress.
- Improved defect identification and remediation cycles.
- Implemented programs to identify and drive early test adoption and agile principles in all projects, validated functional and non-functional requirements.
- Reviewed technical specifications/limitations and constructed reviews of technical approach.
- Actively participate in Root cause analysis, production testing and troubleshooting of critical incidents.
- Few projects delivered for AT&T:
- Real Time Provisioning, Mobility Co Pay, ECRM Integration for Lead Creation.