

ABHISHEK P. S. KUSHWAH

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SUMMARY

Software Engineer with 15 years of experience in software development and automation at Hewlett Packard Enterprise, Dell EMC, Oracle (India), and Mphasis.

EXPERTISE

- Programming/Scripting languages: Python, PERL, Shell, Ruby, Core Java.
- Automation Frameworks and Tools: Selenium IDE/Webdriver, TestNG, Jenkins, Robot Framework, Playwright, pytest.
- Integrated Development Environments (IDEs): Eclipse, Visual Studio Code (VS Code), PyCharm
- Version Control tool: SVN, GIT, Perforce
- Project Management Software: HP QC, IBM ClearQuest, JIRA, Bugzilla, and Spira.
- Operating Systems: HP-UX various flavors (RHEL, SLES, OEL), Solaris, Solaris SPARC, Microsoft Windows Variants, AIX
- Virtualization Technologies: VMware (ESX 7.0, 6.0, 5.0, ESXi), Citrix Xen Server, Microsoft Hyper-V, Solaris Zones/container, AIX LPAR, VPLEX, Recover Point, Docker, RAID concepts, vMotion, Kubernetes, etc.
- Clustering Solutions: Red hat Clustering Suite, SUN clustering suite, AIX IlgR2/120 RAC (Real Application Cluster), Linux Oracle11gR2/12c RAC (Real Application Clusters), AIX HACMP cluster, HPE Serviceguard Clustering, Linbit-DRBD)
- DB: Oracle 11g (all versions), 12c, Sybase, Informix, SAP Brtools 72, SQL, Exchange, MongoDB
- Storage protocols and tools: FC, iSCSI, FCoE, FCIP, NFS, IOMeter, Apache JMeter, vdbench, FIO, HP MeatGrinder, etc.
- Experienced in Docker technology, including Dockerfile creation, Docker Hub usage, Docker Swarm orchestration, Docker Compose deployment, Docker Volume management, Docker Registry utilization, Docker Engine operation, Docker Networking configuration, and Docker Container Registry implementation.
- Cloud Services: Proficiency in Amazon Web Services (AWS), covering Elastic Compute Cloud (EC2), Elastic Block/Object Storage, Simple Storage Service (S3), Auto Scaling, ElastiCache, ELB, VPC, Route53, Kinesis.
- Experience in Provisioning, upgrading, and Patching of Fusion Application SaaS environments (FA SaaS) deployed over Oracle Private Cloud, Virtual Private Cloud, and Hybrid Cloud.
- Experience in local and remote data deduplication, data protection, and data replication technologies, including clone, snapshot, and SnapSure.
- Proficient in setting up and managing CI/CD pipelines using Jenkins, automating build, test, and deployment processes for software applications. Skilled in integrating Jenkins with version control systems like Git and SVN, configuring pipelines with stages for continuous integration and delivery, and optimizing pipeline performance for enhanced development productivity.
- Proficient in Docker Swarm and Kubernetes for container orchestration and management. Skilled in utilizing Kubernetes features such as Pods, Deployments, Services, Ingress, ConfigMaps, Secrets, Horizontal Pod Autoscaling (HPA), StatefulSets, DaemonSets, and Jobs for managing containerized workloads effectively.
- Proficient in SAN, FC protocols, and NAS (CIFS, NFS): Extensive experience in managing and optimizing Storage Area Networks (SAN) using Fibre Channel (FC) protocols, ensuring high-speed data transfer for mission-critical applications.
- Skilled in utilizing the HP System Management Homepage (SMH) for comprehensive server management tasks, including system monitoring, performance optimization, and troubleshooting.
- Experienced with storage boxes such as MSA, JBOD, EVA (Enterprise Virtual Array), Clariion, and Symmetrix.
- Proficient in designing and implementing automated web application testing solutions using Selenium WebDriver and Robot Framework, leveraging advanced scripting languages such as Python.
- Experience in developing a robust log analytics framework aimed at proactively identifying potential failures within production applications.
- Experience in developing automation frameworks from scratch. Created a framework for LINBIT-DRBD integration testing specifically tailored for HPE Serviceguard.
- Proficient in utilizing Iometer, FIO, and Vdbench to evaluate and optimize storage and server performance by conducting stress tests, and measuring I/O throughput, latency, and response times across various workload scenarios.
- Experienced in leveraging Postman for REST API testing, enabling the creation, automation, and validation of API requests and responses.
- Proficient in Apache JMeter and LoadRunner for conducting performance testing of web applications, including load testing, stress testing, and scalability testing.
- Experienced in Load testing with Locust framework, including test script creation, distributed load generation, performance monitoring, and test results analysis.

WORK HISTORY

Jan 2018- Sep 2024

Hewlett Packard Enterprise | Software Development Engineer in Test

Project: HPE Serviceguard

HP Serviceguard enables the creation of high availability clusters of ProLiant servers. A high availability system ensures that application services continue running despite hardware or software failures. These systems protect against software failures as well as failures in key components such as system processing units (SPU), disks, or local area network (LAN) elements. In the event of a component failure, a redundant component takes over automatically. Serviceguard and other high availability subsystems manage the seamless transition between these components, ensuring continuous availability.

June 2015- May 2018

Oracle, India | Software Development Engineer in Test

Project: Oracle Fusion Application (FA SaaS):

Service Deployment Infrastructure (SDI) is an automation tool that helps you model and set up Oracle Fusion Application environments, allowing you to spend less time managing those environments and more time focusing on applications running in Oracle Cloud.

With SDI, you create a template that defines all the required resources, such as Fusion Applications release templates, VM templates, hypervisors, ZFS storage, and Oracle 11g/12c DB instances. SDI automates the provisioning and configuration of these resources, removing the need for manual setup and dependency management. SDI handles all the complexities, ensuring a seamless deployment process.

Mar 2011- May 2015

Dell EMC, India | Software Development Engineer in Test

Project: EMC Replication Manager

EMC Replication Manager is a solution designed to create application-consistent replicas of file systems and databases such as SQL, Oracle, and Exchange, as well as VMFS datastores. It works with EMC storage arrays, including Symmetrix, Clariion, and Celerra, ensuring reliable data replication for critical applications.

Nov 2008- Mar 2011

Mphasis, India | Software Engineer

Project 1: HP Data Protector

HP Data Protector is a comprehensive backup and recovery solution designed to manage both disk and tape backups. It ensures maximum data protection while supporting 24/7 business operations. The software centralizes backup processes and eliminates backup windows through techniques like online backup, open file backup, and instant recovery. Its industry-leading instant recovery features and integrated disaster recovery options enable enterprises to recover critical data within minutes, meeting the demands of complex IT environments.

Project 2: Integrated System Testing (IST)

Firmware Testing involves flashing firmware for various system components, including system ROM, storage controllers (P700m, P410i, P212), Modular Smart Arrays (60, 70), NIC cards, iLO, hard drives (SAS, SATA), switches (VC, Cisco, FC), Onboard Administrator, FC HBAs (Emulex, Qlogic), Brocade HBAs, HP SAS Expander cards, and tape drives.

SmartStart is a deployment tool that simplifies ProLiant server setup (DL, ML, BL), offering a consistent way to configure servers. It installs drivers for Emulex, Qlogic HBAs, iLO, NICs, and SAS/SATA controllers, with automated driver installation for both Windows and Linux environments.

TECHNICAL CERTIFICATIONS

An EMC Proven Professional and holder of:

- AWS Certified Solution Architect (Amazon Web Services)
- Java SE 8 Programmer Certification
- EMCPA Associate Information and Storage Management
- EMC SA Storage Area Network (SAN) Specialist
- EMC VNX Storage Array Specialist
- IBM Data Science Professional
- Docker Certified Associate
- Certified Kubernetes Application Developer (CKAD) [Pursuing]

EDUCATION

BTech (Electronics and Communication Engineering) | Shri Vaishnav Institute of Technology and Science | 2004 - 2008