**Vikas Agrawal**

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**Profile Summary**

Around 14 years of experience in IT Software field. Having a relevant 4 years of experience in DevOps, Git, GitHub, AWS, Azure, Docker, Docker Swarm, Kubernetes, Ansible, Jenkins, Cloud computing, Virtualization, Architecture, Windows server and Linux/Unix server. Got opportunity to work in various domains like MPKI, Telecom, Networking/Wi-Fi/Security, Mobile Application Security, Financial eCommerce, Agile, Scrum.

**Technical Abilities**

* Rich experience in IT development, testing and DevOps enterprise level products and client applications.
* Possess both Technical and Managerial Skills: Technical Hands On with management skills.
* Strong experience in design, Implementation, Deployment, administration experience on AWS(IAAS, PAAS & SAAS) and Certified AWS Architect.
* Having exposure in CI/CD environments, DevOps, Docker, Docker File, Jenkins, Jenkinsfile, Ansible, Chef and Terraform. Good understanding Swarm and Kubernetes.
* Have knowledge of Windows/Linux operating systems and servers.
* Have worked on virtualization technologies like OpenVZ (Container based virtualization), Docker, Colinux, Cygwin, virtual box & VMWare Player. Also created test environments in VMWare vSphere and vCloud Director.
* CSTM, CSTE, ITILv3, AWS CSAA (Certified Solution Architect Associates) and SCRUM Master accredited.
* Complete understanding of Software Development Life Cycle (SDLC) and STLC.
* Worked on backend automation using Python, Shell, Perl and TCL/TK mainly for N/W & Security Projects
* Working knowledge of automating test cases using Robot Framework (Ride), WinRunner and MiriFice’s MiriATE (TCL)
* Having experience to be working at onsite (UK, US) for work at client side. Currently holding valid B1 visa.

**Management/Soft Skills**

* Gave demos to Pre-Sales/Sales Teams/Tech Support Teams and also involved into RFP and POC.
* Providing document input to information development team, review and sign-off for release.
* Experience in troubleshooting customer escalations and supported PSO.
* Interaction with customer to resolve their high priority issues in their live/production environment.
* Co-ordination between team members for understanding the requirements and feature across global locations.
* Experience working as part of Agile/Scrum teams. Thorough experience in working with Program Managers, Sprint planning and ensuring product delivery.
* Actively involved in hiring and recruitment processes. Built complete teams from scratch.
* Involved in providing KT to ramp up new joinees in the team.
* Managed team of 15 (max) workers from task allocation to task completion, performance review and technical guidance.
* Worked with interns in team on various projects.
* Good experience in managing multiple projects, resource allocation, estimation and tracking.
* Good experience in global development co-ordinations and off shore delivery.
* Created various projects artifacts and documents for audit and according to CMM level compliance.
* Good communication, interpersonal, analytical and fast learning skills.

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**Experience Summary**

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| Total Experience | Till Date | 14 Years |

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| **Organization** | **Designation** | **Duration** |
| DigiCert Security India Pvt Ltd (Former Symantec), Pune | Princ Software Engineer | June 14 – Till Date |
| Tech Mahindra, Noida | Tech Manager | November 06 – June 14 |
| CSC (Computer Sciences Corporation Pvt. Ltd.), Noida | Senior System Tester | April 05 - November 06 |
| eBizNeeds Pvt. Ltd., Jaipur | Test Engineer | May 04 - April 05 |

**Technical Skills**

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| **DevOps Tools** | Git, GitHub, AWS, Azure, Docker, Docker Swarm, Kubernetes, Ansible, Chef, Terraform, Jenkins, Nagios, Jira, Confluence, Splunk, Maven, Junit, Selenium, Sonarqube |
| **Core Testing Skills** | Manual Testing, Integration Testing, System Testing, Automation Testing, Test Case Writing, WebService API Testing (SOAP, REST), Data Driven Testing, Keyword Driven Testing, Behavior Driven Development (BDD) |
| **Automation Framework** | Robot Framework (Ride), WinRunner and MiriFice’s MiriATE (TCL), SOAP UI, Postman, Selenium Webdriver, |
| **Automation and Build Tools** | Gradle, Maven, Jenkins |
| **Language** | Python, Shell Script, TCL/TK, PERL, Expect |
| **Version Management Tools** | Git, GitHub, Perforce, SVN, CVS, Visual Source Safe |
| **Management Tools** | JIRA, Toro, E-Track, SourceForge, QC, TestRail, BugZilla, QATraq, Sofforont, Confluence |
| **Virtualization** | VMware Player, OpenVZ, Docker, Cygwin, colinux, virtual box |
| **Operating Systems** | Windows Server 2012/2008/2003, Windows, Linux/Unix (Sun Solaris, HP Unix, Debian, Fedora, Red Hat, Ubuntu) |
| **Network Security Technologies** | Firewall, URL Filtering, VLAN, LAN/WAN, L2TP, FTP/SFTP, Telnet, SMTP, POP3, HTTP, DNS Servers, L2/L3 Protocol Layer Testing (DHCP, VRRP(HSRP), LACP, L2TP tunnel), IPTables |
| **Telecom Domain Technology** | SNMP, MIB, ETOM, NMS, OSS (Service Assurance), FCAPS, TMN, SOA, PMOSS, InfoVista V2.2 & V4.0 |
| **Other tools worked upon** | Toad, SQL Developer, SQL Tools, Microsoft NetMeeting, MS Visio 2003, Macromedia Captivate, BugZilla, InfoVista, JTrack, Nmap, Nessus, Ethereal/WireShark/TCPDump , Blat, Xitami, Argosoft, Putty, WinSCP, FileZilla, Mirifice’s MiriATE, VMWare, Citrix, CURL, KVM, SSO (Kerberos), Iptables, |
| **Hardware** | Hubs, Wi-Fi Routers, Wi-Fi Access Points (BelAir, Cisco, Aruba), Cisco Routers, Switches (D-Link, Cisco) |

**Professional Certifications**

* Certified SCRUM Master from Scrum Alliance
* AWS CSAA (Certified Solution Architect Associates) from AWS
* ITIL V3 Foundation (IT Infrastructure Library) from EXIN
* CSTE (Certified Software Test Engineer) from QAI
* CSTM (Certified Software Test Manager) from STQC

**Awards**

* “2 Cookies – Certificate of Appreciation and a Pat-on-the-back” at Tech Mahindra (2008-09) to get the team on board to start a big project.
* “Pat-on-the-back” from on-site leader for project finish before deadline at Tech Mahindra (2010-11).
* “Pat-on-the-back” from Group Head for making automation framework at Tech Mahindra (2013-14).
* “Applause” award for excellent work to customer escalation and support at Symantec (2017-18)

**Experience Details**

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| **Digicert Security, Pune**  Princ Software Engineer | Current (Full Time)  June14 – Till Date |

* **Symantec Magnum MPKI (AWS Cloud Migration)**

Symantec Magnum MPKI product decided to move into cloud, so Participated into architecture designing and product legacy product environment into AWS cloud migration. Implement IT cloud IAAS using Cloud and Implement various Application Template for engineering team to use for testing.

* **Symantec Magnum MPKI**

A Magnum is a product which support MPKI (Managed Public Key Infrastructure). This product supports Public and Private CAs integration. Life cycle of the certificate maintained by this product like issued certificate, revoke, delete and so on. Many types of certificates are supported like User, Device, Server and Organisation.

Job Profile (Roles and Responsibilities) –

* Responsible for architecting, designing, implementing and supporting of cloud-based infrastructure and its solutions on AWS.
* Managing Amazon Web Services (AWS) infrastructure and Proficient in AWS services (EC2, ELB, VPC, S3, CloudFront, IAM, RDS, Route 53, CloudWatch, SNS).
* Currently working on CI/CD pipeline setup for Java using Jenkins, Git, Github, Ansible, Docker, AWS, Nagios, Jira, Splunk, Confluence.
* Involved in Pilot Verification and Production Verification. Creating and maintaining the automation in Selenium WebDriver, Maven, TestNG, Java and Python.
* Multiple Testbed setup from scratch including user-stores like AD, LDAP, MS Autoenrollment.
* Experience in troubleshooting for Customer Escalations and product demo.
* Follow agile process, actively participates in Sprint planning. Also played as SCRUM Master role.
* Manage global co ordinations with Dev teams and delivery managers.
* Interacting with TPMs and Dev Managers in India and creating QA schedules and assignments for projects.
* Requirements review and creating test plans for new features\projects and tracking progress to closure.
* Start up new teams – Hired and build automation team within India.
* Process improvements, Mentoring, helping and performance review of juniors.

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| **Tech Mahindra, Noida**  Tech Manager | 7 Year 7 Months (Full Time)  Nov 06 – June 14 |

* **SyncML Automation**

SyncML is a protocol used to sync phone contacts to server or vice versa based on mobile sets capability. VCard generator 2.1 used to create the VCard for mobile sets and XSLT tool used to XML transformation. Syncevolution is a tool to sync mobile contacts to server, which follows the SyncML protocol. CURL tool is for soap API used to test sync on server and vice versa. Automation framework(Keyword driven) is written in Robot framework, Python, Batch and Shell Script.

* **AWS Network Management Devices (NMD)**

The device is CPE network equipment installed in an AT&T Wi-Fi (AWS) venue. The device operates as a gateway providing Internet and AWS data center connectivity to the Wi-Fi guest and back-office network of the customers. The high availability feature eliminates the single point of failure with hot standby backup for NMDs. The feature requires high availability support with two or more NMDs. The traffic should be distributed among the participating NMDs and in case an NMD fails, its load should be immediately taken up by another NMD in the high availability setup.

**VRRP (HSRP) -** The VRRP will be responsible for high availability protocol between the devices that are part of the cluster. The open source Keepalived will be used to provide VRRP functionality on device.

**Link Aggregation Control Protocol (LACP) -** LACP enables logical grouping of the LAN interfaces on NMD. Multiple interfaces can be group together as a single logical interface providing redundancy, load balancing and high link bandwidth.

**DHCP -**The DHCP server will run on only two nodes in a high availability cluster and the DHCP servers will be configured to run in active-standby redundancy configuration. The DHCP daemon will also enable load distribution by allocating different router IP addresses in the DHCP leases to the clients.

**Configurable BlackList URL Filtering with Palo Alto device -** BlackList URL Filtering feature implemented to set BlackListed URL/IPs using Central GUI. SOAP web service is implemented to add, delete and update of BlackListed URL/IPs.

**TACACS(+) -** TACACS+ (Terminal Access Controller Access-Control System Plus) is an access control network protocol for routers, network access servers and other networked computing devices. TACACS+ is an Authentication, Authorization, and Accounting (AAA) protocol for authentication to network devices such as routers, switches, and firewalls.

**Layer 2 Tunneling Protocol (L2TP) -** Access Points using L2TP tunnel for communication between AP and debian(HSB)/Routers. Which is configured into LNS-LAC mode. At Debian (HSB)/Routers side “Prol2TP” is running as LNS mode and at Access Point side configuration done as LAC mode to establish the L2TP tunnel. There is also support for Failover from Primary server to Backup server, if L2TP tunnel is broken with primary server. L2TP tunnel again Fallback to Primary server while connectivity is restored. L2TP tunnel is also established between Cisco router and debian (HSB) box by using “IP L2TP” Linux utility and “Prol2TP” as well.

* **Endurance Testing**

Endurance Testing is done on the BT Vision’s Set Top Boxes and had done the automation in MiriATE tool. Test Cases is written for performance and functional UI in TCL script on MiriATE H/W. Collection of the logs after executed script’s results. Installing new builds in the STB and recover of the STB after getting crashed during test execution.

* **MobAppsAnalyser**

MobAppsAnalyser tool is developed to increase the security for the Mobile & Smartphone. Before installing any mobile application on your mobile; MobAppsAnalyser tool scanned the apps and find all the malicious activities (Mobile Trojan) and generate the logs & HTML reports. By this report user can decide that Mob App is secure enough to install on his mobile or not. Currently support is given for J2ME, Symbian, Android and Windows mobile plateform. In future support will be provided for iPhone and Blackberry. Database of signature has also been created for prior scanned apps.

* **Device Manager (iPConsole)**

Device Manager is the web-based solution of ISM for small level enterprises, which are not willing to invest too much amount for securing their network. Device Manager will exactly work as same as ISM and the only difference is; it is web based solution provided to the user, so it’s provide mobility to the user and user can access freely from anywhere from their network.

* **ISM (iPolicy Security Manager)**

The iPolicy Security Manager (ISM) delivers world-class administration, configuration, monitoring and reporting services for enterprises and service providers through a highly intuitive and very easy-to-use interface. The ISM is highly scalable, allowing concurrent management of multiple defense mechanisms such as firewall, IDS/IPS and URL filtering many iPolicy Intrusion Prevention Firewall systems. Its ease of use and collapsible multi-tiered architecture make it ideal not only for mid-size enterprises that require low overhead, plug-and-play deployments but also scales for large enterprises and service providers who need to deploy many Intrusion Prevention Firewalls.

Job Profile (Roles and Responsibilities) –

* Responsibility of integration, manual and automation testing.
* Worked on automating smoke/sanity test suite, new features and regression test suite.
* Participated in feature/functional, GUI, sanity, system, regression, deployment, performance and production testing.
* Involved in Pilot Verification and Production Verification.
* Providing document input to information development team, review and sign-off for release.
* Multiple testbed setup from scratch with various network elements (Router, Switch and Access Points)
* Execution of the test cases manually and automation (Automated the test cases with using the Robot Framework, Python, Shell Script and Openvz) and Nagios alerts testing & simulation.
* Experience in troubleshooting for Customer Escalations and product demo.
* Follow agile process, actively participates in Sprint planning.
* Manage global co ordinations with Dev teams and delivery managers.
* Interacting with TPMs and Dev Managers in India and creating QA schedules and assignments for projects.
* Requirements review and creating test plans for new features\projects and tracking progress to closure.
* Start up new teams – Hired and build automation team within India.
* Process improvements, Mentoring and helping juniors.

**Education**

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| **MBA(IT)** distancefrom Vinayaka Mission University, Selam, TN, India | 2010 |
| **B Level (MCA)** Regular**,** DOEACC Ministry of Information Technology, New Delhi | 2004 |
| **Bachelor of Science (B.Sc.),** MDS University Ajmer (Raj) | 1998 |

**Personal Details**

* Date of Birth : 26th NOV 1978
* Gender : Male
* Marital Status : Married
* Nationality : Indian
* Passport Status : Available & Valid
* Visa : US B1 valid till 2022
* Languages Known : English, Hindi
* Father’s Name : Mr. T. C. Goyal
* Current Address : B-102, Ruby Park, Park Street, Near Kalewadi Phata,

Wakad, Pune – 411 057 (MH)

* Professional Reference : As per request
* GitHub Repository : <https://github.com/goyalvickey/>
* LinkedIn Profile : http:// www.linkedin.com/in/vikaskumar-agrawal