Girish J

Test Architect/Technical Test Manager/Automation

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## Summary:

* A Test Architect/Technical Test Manager/Quality Assurance/Technical Test Manager/Automation Engineer with over 12+ years of experience in Testing, GUI Automation & System Automation, Security, Performance, Load & Stress Testing, Development, Network Consultant (NC) & Customer Support for Mobile, Unified Communication, VOIP, SIP, Cloud, Active Directory, Telecom, Optical (NMS & EMS), L2 & L3 layers, Networking (SNMP Agent, SNMP Agent Simulator and SNMP Manager) application, MIB development, CLI and Java applications. These projects involved the requirement gathering, designing, development, testing, technical support and team handling
* Expert level domain knowledge in SIP,Unified Communication Products (Call Manager, Unity, Unity Communication, CUPS – Cisco unified Presence Server, CUPM – Cisco Unified Provisioning Manager), VOIP (Voice Over IP), Smart Call Home, Protocol decoding, Optical (NMS & EMS), Networking (SNMP Agent, SNMP Agent Simulator and SNMP Manager)
* Expert level skills in PERL ,Python, Selenium (Webdriver), Java, C, Tcl/tk, Shell Programming
* Good Experience in Automation Tools like PYTHON, PERL, CURL (Rest web services), Selenium (Webdriver) CSAT – Cisco Smart Automation Tool, Win Runner, QTP, Aiden, RFT (Rational Functional Tool)
* Role included gathering client requirements from product management team, estimation, leading the design and testing efforts, review, documentation, team communication and delivery.
* Good Experience in Automation of Test cases, Security Testing, Sanity Testing, Regression Testing, Load and Performance testing.
* Good experience in Design Languages/Methodologies UML, OOAD (Object Oriented Analysis and design)
* Good experience in architecture, design, development and testing experience in UNIX, Linux, Solaris and Window platforms.
* Experience in leading projects as lead for testing of UCDT (Unified Communication Deployment Tool) and SCH (Smart Call Home)
* Good experience in software tools Tims, CDET, Rally, WinSCP, Dashboard, CUDLI, PRRQ, Tord, ClearCase
* Experience in Software Methodologies in Agile, Scrum master, Iterative Development, Waterfall model, Network consultant (NC) and Project Manager.
* Experience in using Project Management tool Microsoft Project and SDLC (Software Development Life Cycle). Good understanding of Scaling, Virtualization, Cloud, Big Data, Security.
* Worked **onsite** in Japan with Japanese client [NEC], US [Customer interaction] and Germany [Customer Support].
* **Travel -** Possess a 10 year valid (till Dec 2015) B1 Visa to the United States of America

## Professional Certification:

* CCNA (Cisco Certified Network Associate) CSCO12429888 – 2013
* Security Ninja White belt Certified.
* ISTQB -International Software Testing Qualification Boards (Certificate number ITB-CTFL – 0037021)

istqbf

## Work Experience:

* **Kodiak System, Bangalore,** INDIA as Technical Test Engineer (PTT – Push to Talk over Cellular) 4th Dec 2013 to till date.
* **Cisco System, Bangalore,** INDIA as Technical Test Engineer (Unified Communication, Smart Call Home) 15th Feb 2008 – 3rd Dec 2013 date. Reference Manager: Robin Jose/Vinay
* **Alcatel-Lucent Technologies India Ltd (Lucent Technologies).,** Bangalore, INDIA as Senior Software Engineer, Lead Engineer and Technical Specialist (Optical/NMS) 1st Feb 2004 – 15th Feb 2008. . Reference Manager: Subbegowda/D B Srinivas
* **Hughes Software System (TENET TECHNOLOGIES),** Bangalore, INDIA as Senior Software Engineer (C, Java and SNMP) 1st Feb’ 2001 – 1st Feb 2004**.** Reference Manager: Nageshwar Rao/Biju Mone

**Technical Expertise:**

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| **Domain** | SIP,Unified Communications, Unified Communication Products (Call Manager, Unity, Unity Communication, CUPS – Cisco unified Presence Server, CUPM – Cisco Unified Provisioning Manager),VOIP, Smart Call Home, Optical (NMS & EMS), Networking (SNMP Agent, SNMP Agent Simulator and SNMP Manager) |
| **Software Methodologies** | Scrum, Agile, Iterative Development, Waterfall model |
| **Design Methodologies** | UML, OOAD |
| **Design Patterns** | Factory pattern, Singleton pattern, Strategy Pattern, MVC model |
| **Operating Systems** | Linux(RHEL),Unix, Solaris, Windows 95/98/2000/2003/NT/XP |
| **Languages** | Python, Perl , Java, C, Shell Programming |
| **Database** | MySQL , Oracle, Postgresql, SQL Server 7.0, SQL Server 2000, SQL Server 2005, HSQL |
| **Technologies/Tools** | BugTrack, Team Track, CVS, Tims, CDET, Rally WinSCP, Dashboard, CUDLI, PRRQ, Tord, Insure++, Gdb, JKD, JSDK , Java Web Server, Rational Rose, JDMK , Adventnet Snmp toolkit, Rational purifier, Net X-Ray, Jini Technology Starter Kit , Smart Draw, Macromedia Director , Clear Case (Config Mgmt), Rational rose, Active Directory, Wireshark |
| **Application servers** | Web logic , Tomcat Server , jakarta-tomcat |
| **Build Tools** | Hudson, Install Shield, Apache Ant |
| **Automation Tool** | PERL, Python, Selenium(Webdriver), SAHI, CURL (Rest web services), CSAT – Cisco Smart Automation Tool, Win Runner, QTP, Aiden, RFT (Rational Functional Tool), HP Load Runner |
| **Load Testing** | JMeter, ITCAM |
| **Protocols** | SNMP, VOIP, IP, TCP, UDP, SIP, HTTP, HTTPS, PPP, (RADIUS, MIP Mobile IP, A11, A12 – RAN, PDSN, PCF, AAA,3G,CDMA2000) , RIP,OSPF,EIGRP |

## Educational Qualification:

* Bachelor of Engineering (Computer Science) – Percentage - 72%. DayananadaSagar Collage of Engineering (Bangalore)

**Role @ Kodiak Systems Projects, BANGALORE**

* Role included gathering client requirements from product management team, estimation, leading the design and testing efforts, review, documentation, team communication, delivery and customer support.
* Automation of Test cases, Security Testing, Sanity Testing, Regression Testing, Load & Performance testing.
* Discussion with the client to understand the product and finalization of requirements and design.
* Technical helps to the team and Managed a team of tester.
* 3G Network Used for Live Testing and Servers was setup on ATCA Cards.
* Responsibility of the product quality and project performance.

**Company – KODIAK SYSTEMS, BANGALORE**

### Project – POC (Push to TALK over Cellular - KODIAK SYSTEMS,

Technology – Linux (RHEL), Windows, SIP, XCAP, C++, Java, SQL, XML, GGSN, SGSN, SMPP, SMSC, Advanced TCA/ATCA Platform , Android Samsung Galaxy 5 Handset

Duration – Dec 2013 ~ till date

**Description -** Kodiak-powered PTT is the **first and only** carrier-based push-to-talk system to offer the ability to make and receive PTT calls over compatible Wi-Fi, 4G LTE, 4G HSPA+, and 3G networks on latest smart phones & windows PC including public Wi-Fi hotspots, home networks, and corporate Wi-Fi networks. Wi-Fi provides **improved coverage** to stay in touch even when cellular wireless service is unavailable. Kodiak PoC Solution supports different ways of calling PoC subscribers including one-to-one and group calls, publishing self presence and subscribing for the real-time presence states of other subscribers and creating and modifying contacts and groups. PoC uses SIP signaling for all presence and calls related signaling and RTCP based messages for floor control within the PoC sessions. For contact and group management, PoC/XDM uses XCAP signaling. In addition to the standard features and functions listed above, Kodiak PoC Solution also supports what is termed as “Predictive Wakeup”. Predictive Wakeup is a Kodiak Networks proprietary mechanism for substantially reducing the call setup time, over and above the efficiency provided by using Pre-Established Sessions and Auto-Answer mode defined in the OMA PoC standards. The tool has **customers** like AT & T USA, Verizon, Bell CANADA and Telefonica.

**Role @ Cisco Systems Projects, BANGALORE**

* Role included gathering client requirements from product management team, estimation, leading the design and testing efforts, review, documentation, team communication and delivery.
* Automation of Test cases, Security Testing, Sanity Testing, Regression Testing, Load & Performance testing.
* CMMI module, Scrum and Agile software development method
* Customer Support.
* Discussion with the client to understand the product and finalization of requirements and design.
* Technical helps to the team and Managed a team of tester.
* Responsibility of the product quality and project performance.
* Exceeding customer expectations, while balancing limited engineering resources.
* Successfully leading and driving cross functional groups and global virtual teams, and reporting business results to executive teams.
* Lab setup.
* Documentation of UCDT project.
* Prioritizing and driving multiple concurrent critical issues, strong in multitasking, managing dependencies and priorities
* Proven ability in adapting and developing a framework of quality standards (ISO and TL9000)
* Presented at multiple customer executive briefing sessions and provided regular presentations on field.
* Been instrumental in the adoption and awareness of product among end customers, often with great feedback.
* Automated 60% Selenium (Webdriver) in UCDT Project and Automated 40% of using QTP and Perl in SCH Project.
* Executed Performance, Load and Stress testing by using Jmeter, ITCAM and Python in UCDT & SCH Project.
* Maintained UCDT and UCAT Dashboard Project.

**Company - CISCO SYSTEMS, BANGALORE**

### Project - UCDT (Unified Communication Deployment Tool) - CISCO SYSTEMS,

Technology – Jakarta Struts, Spring 3.0 MVC/Rest, Hibernate, Mysql, Postgres, Apache Velocity, JSP, Servlets, JSTL, Ajax, Web services, SOAP API, Jax-RS, SSH, Apache Telnet, Apache POI, ODBC, CUDLI, REST API, Cloud, CSAT (Automation)

Duration – Dec 2010 ~ till date

**Description -** UCDT is a product that provisions / administers a multitude of Cisco Unified-Communications technologies like CUCM, Unity, Unity Connection, CUPS, Router and CUPM, using a variety of implementations that include Web Services, Telnet, SSH and SQL queries. It provides a single unified framework for provisioning Voice networks and is extensively used by Customers to configure and maintain their large scale Voice networks.

This product helps in enabling partners and consulting firms to build service around planning stage of IP Telephony (IPT) deployment. The automation built into the product increases productivity and brings consistency Currently, the tool has about **14 customers** - including Bank Of America (BoA), Walgreens, Walmart, ExxonMobil, Citibank, RBS, Bank of the West among them.

**Achievement -** Won "Best Project Delivery" award for three consecutive quarters and outstanding performance.

**Project - SCH (Smart Call Home) - CISCO SYSTEMS, BANGALORE**

Technology – Java, Oracle, JSP, Servlets, Ajax, Web services, SOAP API, SSH, Apache Telnet, Apache POI, ODBC, JMeter, ITCAM, CSAT (Automation), PERL (Automation)

Duration – Aug 2009 ~ Nov 2010

**Description -** SCH identifying issues quickly with continuous monitoring, real-time, proactive alerts, and detailed diagnostics, it helps detect and resolve known errors faster and with less effort by automating support. It resolves critical problems faster with direct automatic access to experts at Cisco Technical Assistance Center (TAC). Web-based access to needed information that provides customers the ability to Review all Call Home messages, diagnostics, and recommendations in one place. Check Service Request status quickly. View the most up-to-date inventory, configuration, Environment, Diagnostic, crash and syslog information for all Call Home devices, Device supported are Data Center Products (nexus 7000 etc) LAN Switching Products (Catalyst 6509 etc), Routing Products (Cisco 76500 etc), Security products (ASA5500), Service Provider and Metro Ethernet Products (cisco XR 12000 Series Router) and Unified communication (UC). Currently the tool as about **25000 registered devices and** **Client – 6000 customers.**

**Achievement -** Own outstanding performance award and Q1 Hero Award for the Customer/Partner Commitment category.

### Project - UCAT (Unified Communication Audit Tool)- CISCO SYSTEMS

Technology – Java, struts, hibernate, hsqldb, Perl, Sahi (testing automation)

Duration – Feb 2008 ~ July 2009

**Description** - Unified Communications Audit Tool collects the configuration data from the Call Manager, Unity Servers, IP Phones, Call Detail Records, Eventlog/Syslog, Cisco Unified contact Center (CUCC), Routers, Switches and TelePresence. The Report Server uses the data collected and analyzes it to generate reports in Word, Excel and HTML formats. The engineers will have to review the document, make any recommendations to the data that has been reported on, and adjust the document as the customer requirements dictate. Rules will enable the analysis and diagnosis process but the engineer will still be responsible for the final result and any additional work to clarify the document. Currently, the tool has about **35 customers -** including Bank Of America (BoA), Walgreens, Walmart, ExxonMobil, Bank of the West among them.

**Achievement -** Acquired a strong hold over new technologies within a short time frame

**Company– ALCATEL-LUCENT, Bangalore**

**Role @ ALCATEL-LUCENT (LUCENT TECHNOLOGIES), BANGALORE**

* Understand the Design, test case plan and test cases.
* Automation of Test cases.
* Automation was done for Cluster Testing, System Testing, Regression Testing and Performance testing.
* Involved in Integration Testing, Cluster Testing, System Testing, Load testing, Regression testing and Performance Testing.
* Designed and Developed (coding) a Performance Tool which provides the complete analysis report and also displaying the graph.
* Customer Support. Discussion with the client to understand the product and finalization of requirements and design. Customer interaction, status reporting
* Estimation for the project testing, Leading the test team.
* Management of project resources, Servers, Test Metrics and Gate Document.
* Implementing and following quality processes
* Technical help to the team.
* Responsibility of the product quality and project performance.
* Designed and Developed (coding) a Tool which is used for verification of the Build & Database. The tool is used before installation of the build, after installation of the build/database and after execution of the real time process.
* 100% automation was done in SQM project.
* Automated to load the build, run sanity testing, regression test cases and send the results through mail, end to end automation.
* Designed and automated a tool called Pre, Post and Real time validation tool using Perl in DNA project.

### Project - DNA (Dynamic Network Analyzer)- ALCATEL-LUCENT, BANGALORE

Technology – Optical, Java SQL Server 2000/2005 and PERL on Windows 2000 server.

Duration – Aug 2005 ~ Feb 2008

Description - The DNA product suite functions as a data collector and integrator for transport network data, with optional pieces for analysis and reporting. Data collection is done by the DNA Framework system. It collects data from Element Management Systems (EMSs), Domain Management Systems (DMSs), and Service Provisioning systems (such as MRP). Data is correlated, consolidated, and stored in a database for further analysis (DNA CSM, DNA CA/PA) or export (Nestra, NFM).

The DNA product suite provides the following value for a customer: - Single seat data collection from EMS and NMS for Optical SDH products - Multi-vendor support for EMSs and DMSs (Lucent, Alcatel) - Value added functions such as reporting and analysis on the data collected - Export of data to higher level Operations Systems.

Customer Service Manager (CSM) Application Servers adds the ability to do management of customer services and customer monitoring of their network. MS SQL Server Replication is used for retrieving Circuit Order, Circuit Segment, Inter Domain Port Assignment, and Circuit data from the data repository in Framework. Circuit Data Manager identifies changes in the customer circuit data replicated from Framework and updates CSM’s local data repository. Alarm Data Manager processes incoming alarm by correlating the alarm to the service and determines whether an outage is service impacting and calculates outage duration

**Worked onsite** in Germany [Customer Support].

### Project - SQM [Software Quality Manager]- ALCATEL-LUCENT, BANGALORE

**Technology** – Java, Oracle and PERL on Solaris 8

Duration – Feb 2004 ~ Aug 2005

**Description** - SQM (software quality manager) is a product that is used to verify SLA’s (service level agreements) by monitoring KPI’s (Key performance Indices) and KQI’s (Key quality indices) of the network. From a user perspective, the product is completely configurable. The user can define KPI’s and KQI’s to be monitored based on the fields of the individual packets coming in. The user can also define ways in which the fields of the packets get mapped. This is a potentially untapped market for all service providers. Since this product is not tied down to any particular technology (ATM, Frame relay, Wired Line etc.) and is completely configurable, it may be used to define and collect metrics in any problem domain. There are modules to receive packets, map them, run expressions on the packets data, a database access module, adaptive monitors, Threshold calculators, alarm modules etc.

**Company – TENET TECHNOLOIES, Bangalore**

**Role @ Tenet Technologies, Bangalore**

* On-Site Coordinator (NEC, Japan), requirement analysis, estimation, design and development (coding) module and Execution of System Test cases, Coordinating the Review of the project documents and Extending the support for Software Quality processes.
* Developed SNMP Agent for sending traps using shell script and Testing.
* Decoded the following protocols IP, SNMP, TCP, UDP, RADIUS, PPP, MIPv4, IMAP, HTTP, GRE, A10, and A11.

### Project - PMS (Packet Monitor System) - TENET TECHNOLOGIES, BANGALORE

**Technology** – C and Java on Solaris 8

Duration – May 2003 ~ January 2004

**Description** - The Packet Monitor System (PMS) is aimed at developing software that can capture, monitor real-time data from Fast Ethernet and Gigabit Ethernet links. This software provides the facility to display the data in real-time as well as logging the same to a file. The PMS captures each packet passing through the network, where it is listening. The packets are tapped using TAP hardware or from a L2 switch. Decoding packets like IP, SNMP, TCP, UDP, RADIUS, PPP, MIPv4, IMAP, HTTP, GRE, A10 and A11.The data from PMS is useful to detect errors or abnormalities on the network. It also decodes and displays the details of each packet passing through the network. The PMS also facilitates logging of the packets captured, so that packet details could be viewed at later time. This software is web enabled and can be used from anywhere in the world. The development is also included an SNMP trap sending functionality when the specific traffic condition is reached. **Client – NEC Japan**

**Worked onsite** in US [Customer interaction]

### Project - SMS (Statistics Measurement System) - TENET TECHNOLOGIES

**Technology** – C on Solaris 8

Duration – May 2002 ~ April 2003

**Description** The Statistics Measurement System project is aimed at developing software that can capture specific application layer protocol packets from the mobile networks to measure their statistics. Ability to collect data from Fast Ethernet Links and Gigabit Ethernet Links is supported in the product. A web based graphical user interface is also provided to view the collected statistics data. The SMS provides feature for setting filters to capture the protocol (RADIUS /mobileIP/ A11/A12) packets and calculate the statistics data. It will also collect statistics counter values from multiple systems, totals them and stores in a statistics data file. Users will use the web based GUI to Query and view the collected statistics data on-line. The SNMP trap facility was provided in the product. **Client – NEC Japan. Worked onsite** in Germany [Customer Support].

### Project– NETWORK ANALYZER - TENET TECHNOLOGIES, BANGALORE

**Technology** – C on Solaris 8

Duration – March 2002 ~ April 2002

**Description** This project aims to develop a Network Analyzer product that can capture, measure, monitor real-time data and log from Fast Ethernet links and Gigabit Ethernet links. **Client –** NEC Japan

### Project– SNMP AGENT SIMULATOR -TENET TECHNOLOGIES, BANGALORE

**Technology** – Java on Solaris 8, Windows NT, Adventnet Tool Kit , Net X-Ray and JDMK4.2 for SNMP

Duration – July 2001 ~ February 2002

Description - This project is development of a Snmp Agent Simulator on Solaris 8 platform.

The SNMP Agent Simulator software simulates one or more SNMP Devices. This software provides a Command Line Interface, Graphical User Interface and the capability to run the scripts. The Product development of SNMP based devices gets an advantage with the use of simulators to replicate SNMP devices. This tool facilitates easy replication of large networks for demonstrations as well as testing. The SNMP Agent Simulator project delivers a simulation tool to NEC to facilitate such an environment for Product Development.. Client – NEC Japan

**Role** - Evaluation of Snmp Agent development toolkits, understanding the requirements, analysis and design (HLD and LLD), development, Testing, Design of Test Cases and their execution.

### Project - SNMP Manager - TENET TECHNOLOGIES, BANGALORE

**Technology** – Java on Windows NT, JDMK3.2 for SNMP

Duration – May 2001 ~ June 2001

Description - This project involves development of an application that provides users to browse the SNMP MIBs and carry out the SNMP operations on the default Windows NT SNMP Agent.

**Client** – NEC Japan **Role** - Understanding the SNMP protocol, JDMK3.2 toolkit, prepared SNMP Manager specifications, Design and development of Java-SNMP modules.

### Project - Home Gateway Architecture - TENET TECHNOLOGIES, BANGALORE

Technology – Windows NT, Java and Jini, Jni

Duration – February 2001 ~ April 2001

Description - This project consists of a product that aims at providing various Services, which can be accessed through emerging technologies like Jini, Bluetooth. Client – NEC Japan

**Role** - HGA specifications, Design and development of Jini technology modules involved in HGA.