**VEERESH S YALIGAR**

**(Technical Lead/Solution Architect)**

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**HIGHLIGHTS OF EXPERIENCE:**

* 16+ Years of experience in Software Industry. 4+ Years in Big Data Analytics.
* Currently working as **Technical Lead/Big Data Solution Architect** at **Mindtree.**
* **AWS Certified Solution Architect – Associate with** domain expertise in Big Data technologies **Hadoop, HDFS, MapReduce, PIG, Sqoop, HIVE, Flume, Storage Management, Layered application, Virtualization,** Cloud environments like AWS and Azure.
* Worked as software specialist at HP, involved in development of application, services, tools and libraries. Also worked on several and C**/C++ and Java** projects in Widows and Linux platforms.
* Hands on experience in trouble-shooting complex issues and working with partner teams and customer interfacing.
* Experience in requirement gathering and feasibility studies, investigation. Worked with Customer Support Teams, on troubleshooting and tracking defects.
* Experience in leading development teams. Active participation in Design reviews, code reviews, Test case reviews etc. Effective communication with management.
* Good understanding of Software development life cycle. Agile and SCRUM processes.
* Holds B.E ( E&C) Degree from Karnataka University Dharwad in year 1995

**EXPERIENCE SUMMARY:**

**Mindtree LTD Solution Architect Sept 2015 – Till Date**

**Skyriver Info Tek Pvt Ltd**  **Technical Lead/Architect June 2013 – Aug 15**

**Hewlett Packard ISO Senior Software Specialist** Apr 2004 – May 2013 **(9+Years)**

**Satyam Computer Ltd** System Software Engineer May 2001 – May 2004 (3 Years)

**AREAS OF EXPERTISE:**

**Big Data Ecosystem:** Cloud Services like AWS, Azure, Hadoop (EMR), HDFS, MapReduce, Pig, Sqoop, HBase, Zookeeper, Hive, Flume.

**Programming Languages:**VC++, JAVA, C#, .NET

**Tools:** Eclipse, CVS, MS Visual Studio, VSO ,Coverity, Code coverage tool, Bulls Eye, JUnit

**Scripting Languages:**  XML, HTML, SOAP, PHP,JSON, Shell scripting

**Methodologies:** **Agile SCRUM** processes, Object Oriented Design Patterns **JAVA/C++** (**OOAD**)

**Operating Systems:** Windows 95/98/NT/2000/XP, Linux. **Databases:** My SQL, NoSQL

**PROFESSIONAL EXPERIENCE**

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| Sept 2015 –Till Date | **Flight Booking revenue data Analysis using Big Data Technologies** | Lead/Solution Architect |
|  | ***Mindtree LTD Bangalore*** | Bangalore |
| *Description* | Design and development of BI Analytical Solution to analyze flight booking inventory data on AWS Cloud for an Airline Company. Project involved developing a ETL process to cleanse the text data stored in S3 bucket. Compute derived elements and load the data to AWS Redshift. The process also generate AWS SNS notifications on number of records processed during every iteration. Visualization tool like Tableau and Power BI used for reporting. Around 9 canned reports and few ad-hoc reports developed as per client requirement. | |
| *Technologies* | AWS, S3, EMR (Hadoop 2.7.0), EC2, SNS, Redshift, PIG,HIVE, Tableau, Power BI | |
| *Role* | * Client interaction to understand customer requirements and document high level specification. Initial POC with sample data. Work with business analyst and the pre sales team to prepare proposal. * Responsible for requirement analysis, Design solution for ETL process, document SRS, Review with customer, Effort estimations and planning delivery dates. * Owned the responsibility of leading the team of fresh engineers, to design, develop and test complete ETL process and lad the data to Redshift. | |

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| Jan 2014 – Aug 2015 | **Logistics Data Analysis** | Lead/Solution Architect |
|  | ***Skyriver Infotek Private LTD*** | Bangalore |
| *Description* | Design and development of analytical applications for a Europe based Logistics Company. Work involved development of tools to import/export the data from production DB in to Hadoop using Sqoop, Development of Java based mapreduce application for management and tracking of consignments/goods, performance analytics, rout analytics, predictive delivery. Monitoring/Validation of sorting and filtering processes. | |
| *Technologies* | Java, Hadoop 2.4.0, HDFS, Sqoop, Mapreduce2, Pig, Flume, HBase, MySQL, | |
| *Role* | * Client interaction to understand customer requirements and document high level specification. * Responsible for requirement analysis, document SRS, Review with customer, Effort estimations and planning delivery dates. * Owned the responsibility of leading the team of 6-9 engineers to design, develop and test of MapReduce applications. Sqoop Scripts for import/export of data between SQL and Hadoop. Troubleshooting issues at customer setup, Help the team in defect fixing, negotiating /handling change request etc. * Organizational responsibility like mentoring key technical staff. Performance evaluation, Promotions, Knowledge harvesting within the organization through knowledge sharing sessions, coach juniors to develop professional skills. | |

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| June 2013 –Jan 14 | **Surveillance Data Analytics and Security Automation** | Lead/Solution Architect |
|  | ***Skyriver Infotek Private LTD*** | Bangalore |
| *Description* | Surveillance Data Analytic tools are applications used for bulk processing image files of face images, thumb images, number plates, bar codes, etc. The system would collect images from devices like surveillance cameras, thumb scanners, bar code readers, etc at regular intervals and imported in to HDFS archive. Several mapreduce jobs would process the images for filtering, size reduction, bitmap, OCR, etc. | |
| *Technologies* | Java, Hadoop , HDFS,HBase, Sqoop,Mapreduce, Flume, PIG, Matlab,  Owned the responsibility of techincally leading the team to design and implement the requirements defined by the client. Worked on several short POC projects for feasibility study. | |
| *Role* |

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| Jan 2013 – May 2013 | **HP 3PAR to Support Cluster with Microsoft Data Protection Manager** | | | Senior specialist |
|  | ***Hewlett Packard ISO Pvt. Ltd.,*** | | | Bangalore |
| *Description* | HP 3PAR VSS provider is a standard Hardware provider for HP 3PAR arrays. The provider is plugged to Microsoft VSS frame work. The Work involved identifying the gaps in the current provider to support Microsoft DPM with clustered shared volume. Implement the required features test and confirm with the client for successful backup operations | | | |
| *Technologies* | Hyper- V Cluster , Microsoft Data Protection Manager (DPM), Hadoop, HDFS, C#,JAVA. | | | |
| *Role* | * Worked independently and owned the responsibility of understanding the customer problem, creating test environment, reproducing the issue , implementing required VSS APIs, testing them to confirm the complete support of VSS provider. Release the patch and documentation. | | | |
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| Dec 2010 – Feb 2013 | **Pegasus CIMOM based Tape Library Provider** | | | Project Lead |
|  | ***Hewlett Packard ISO Pvt. Ltd.,*** | | | Bangalore |
| *Description* | New version of Tape Library was developed using open source CIMOM (Pegasus) and CIMPLE Adaptor to overcome the performance and stability issues of legacy Java based provider. Work involved developing the JNI interface to interface with the Java implementation of the provider. Few of the CIM class were re designed to improve the performance and the new functionality of lower layer. | | | |
| *Technologies* | ,JAVA, JNI, JUnit,VC ++, g-soap Pegasus CIMOM, SMI-S, , SLP, Open SSL , Install shield for creating package. | | | |
| *Role* | * Collecting requirements and analyzing the requirements for Tape provider and Indication provider. * Completely owned the design of CIM server provider, storage array provider and Indication provided. * Help the team to develop the respective components.( Active participation in design review , code review * Actively involved in DB query design * Implemented few CIM classes in server profile and Storage array profile. * Independently worked on resolving compiler issues with Pegasus CIMOM. Actively participated in the open source groups in finding solutions and filing bugs in the source. * Actively worked with CIMPLE WEBEM team (HP partner) in solving various interface issues within the adaptors. * Worked to solve various blocker issues within the provider , CIMPLE, Pegasus to clear CTP certification. * Developed packages of CIMOM and Providers for customer installation. * Responsibility to implement Java classes to clear CTP Certification. | | | |
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| Sept 2010 - Dec 2010 | **Linux based SMI-S EVA Provider on ABM** | | | Project Lead |
|  | ***Hewlett Packard ISO Pvt. Ltd.,*** | | | Bangalore |
| *Description* | ABM is a Target Based management (Power PC) card where Command View EVA (EVA Management software) is installed. Moving SMIS Provider component of EVA also to ABM would save the hardware cost of total solution. Task was to develop a new SMIS Provider on Linux ABM evaluate the performance. It involved building Pegasus CIMOM and the CIMPLE adaptor on Power PC Linux. And then develop a Provider to implement CIM classes for Server and Array Profile. The SMIS queries from client applications are review by CIMOM and respective implementation in Provider are triggered. The provider uses XML interface to query on board Command View EVA application and provide the information in the form of respective CIM instances. | | | |
| *Technologies* | C++, JAVA, XML, SOAP, gcc, Linux-PowerPC, SMI-S | | | |
| *Role* | * Complete responsibility of building Pegasus CIMOM on PowerPC linux and test working of CIMOM on ABM card. Trouble shoot compiler and build errors. * Design and developed prototype of provider to implement Storage Volume Class and few basic classes. * Successfully tested and demonstrated the provider running on ABM card. * Collected CPU performance statistics with both CV and SMI-S Provider running on ABM card. | | | |
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| June 2010 – Sept 2010 | **Porting of EVA Provdier to C++** | | Team Lead/  Senior Software Engineer | |
|  | Hewlett Packard ISO Pvt. Ltd., | | Bangalore | |
| *Description* | Existing EVA Provider was developed in Java within house developed CIMOM. The support of CIMOM was stopped and there were limitations with it. Existing Provider needed a design change to improve the performance with more number of objects support by new version EVAs. Task was to move to Open Pegasus CIMOM and implement EVA Provider in c++ with new design capable of handling more number of objects with better performance. | | | |
| *Technologies* | C, C++, Visual Studio(Windows), JAVA | | | |
| *Role* | * Completely owned the designs a development of EVA Provider * Interact with various partner product teams to collect the requirements. * Got the design approved by the senior architects. * Successfully implemented and demonstrated expected performance improvements in new EVA Provider. | | | |
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| Nov 2009 – May 2009 | **EVA Simulator** | System Software Engineer | | |
|  | ***Hewlett Packard ISO Pvt. Ltd.,*** | Bangalore | | |
| *Description* | The project was to develop software simulation of EVA. The application would help the pre-sales to demo EVA solution. It would also help test teams to test CV EVA without having physical EVA. The SCMI layer (Device interface layer CV EVA) developed to simulate all SCMI APIs thereby achieving EVA Simulation. A text file to define the configuration of the hardware required for example the array types, controller numbers, WWNs, disk enclosure types and numbers, disk types and numbers. | | | |
| *Technologies* | C/C++ , VC++ | | | |
| *Role* | * Worked as technical lead for team of two to develop the simulation DLL in short time. * Completely owned responsibility to decide on various design approaches, to define mile stones and demo the product to techinical team on every milestone achieved. * To clear all the automation test cases to verify the simulator. | | | |
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| Jun 2004 – Oct 2009 | **Command View EVA & SSSU(Storage System Scripting Utility) Development & CPE** | | | Software Engineer |
|  | ***Hewlett Packard ISO Pvt. Ltd.,*** | | | Bangalore |
| *Description* | Command View EVA is the management software for HP Enterprise Virtual Array. Command View discovers the EVA Storage systems in the SAN. The application is used to provision arrays and monitor them to raises various events in the system. It gives 2 interfaces: GUI and XML for users to configure arrays. SSSU is another CLI tool to manage EVAs. Provides various commands to retrieve the array information and manage the array. | | | |
| *Technologies* | C, C++, html, Visual Studio(Windows), Linux-PowerPC | | | |
| *Role* | * Involved in architecting, designing and delivering various features for Command View. Some of them are. * Autopass licensing * Mirror clone * Instant Restore from snapshots * New generation array Support * Command View on TBM(Target Based Management) * Responsible for answering customer queries * Handling product issues faced by customers worldwide adhering to SLA, interacting with customers/Level 3 teams. * Customer demos: Setup and demoed Data Replication feature of EVA for CRIS (IRCTC, Indian Railways), Delhi. * Patent submission on data replication. * Mentored junior members in the team. | | | |
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| April 2002– May 2004 | **Transband iSCSI target Development** | | | Software Engineer |
|  | ***(Transband )Satyam Computer Limited*** | | | Bangalore |
| *Technologies* | C, C++ Extensive use of SCSI commands. | | | |
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| Apri 2000 – April 02 | **Telecom FCAP services** | | | Software Engineer |
|  | ***(Lucent) Satyam Computer Ltd*** | | | Bangalore |
| *Description* | Worked as CPE engineer in billing module. | | | |