

Trainer Profile – Jayant Kumar

Summary

Have over 9 years of experience as a software developer in Telecom and manufacturing domains for various multinational clients in various projects in the complete SDLC lifecycle with challenging deadlines. Worked in Onsite/Offshore models with various teams in various geographical locations (USA, Vietnam and Thailand). Aspiring for a role as a Data Scientist/Senior Big Data Developer.

3 months of hands on experience on Apache Spark using machine learning algorithms and very good understanding of BigData technologies like Hadoop, Map Reduce,Pig, Hive and Sqoop.

Performed POCs on Hadoop using MapReduce,PIG, Hive and SQOOP

Hands on experience on R and Python pandas framework.

Experience on visualization technologies like C3.js, D3.js, ggplot2.

Cognizant Technology Solutions, Associate Projects - 2005 to 2011 .

Wipro Technology Solutions, Module Leader - 2011 - 2014.

Freelancer – 2014 - 2015

Software Skills

Programming Skills	Java, Javascript , Python, R, Matlab, GNU Octave, JQuery, HTML, JSP , Servlets, Struts, Spring MVC, Spring Batch, Seam Framework , JDBC, SQL, AJAX, CSS, Numpy
Cloud Technologies	Google App Engine, Amazon Web Services, Google Cloud Compute and Google DataStore , Google Protocol Buffers , Databricks Cloud
Big Data Technologies	Apache using pySpark and MLlib, NOSQL: Cassandra and Hbase. Hadoop - HDFS, Map Reduce, SQOOP, Pig, Hive
Data Analysis Tools	Python frameworks Pandas, R packages for data cleaning and data wrangling.
Machine Learning/Predictive Modeling	Linear Regression, Classification, Clustering (Hierarchical, Kmeans), SVM, PCA.
Data Mining and Machine Learning tools	R, WEKA, MATLAB, GNU Octave, Matlab, Spark ML library, Scikit-learn packages.
Data Visualization Tools	R ggplot2 , Python Matplotlib, C3.js , D3.js , Google Charts API
Optimization techniques	Linear Optimization and Integer Optimization using Libre Office.
Databases	Oracle, MySQL , NOSQL Databases (Cassandra, Google Data Store, Hbase, Metastore).
Operating Systems	Windows, CentOS, Ubuntu, Mac
Interests	Apache Flink, Apache SOLR, Apache Kafka, Apache Storm , Scala, Rust, Julia, Tableau, AWS certification, Telematics

Professional Experience Summary:

Free Lancer | Hyderabad | India

2014(October) - 2015

Designation: Developer

Worked as freelancer and was involved in developing analytics dashboard for Pion technology.

Created prediction models, linear regression models, CTR prediction pipeline, exploratory analysis of neuroscience imaging data using PCA and feature-based aggregation using Apache Spark and MLlib

Applied Predictive Models like Logistic Regression, CART, Random Forest to see if a product item posted on an ecommerce site will be sold or not.

Wipro Technologies | India | USA

2011 (July) - 2014 (August)

Designation: Module Leader

Wipro Limited is an Indian multinational IT consulting and System Integration Services Company headquartered in Bangalore, Karnataka.

Worked on various Client Projects at onsite and offshore

Google:

- Worked at onsite Google, Mountain View, CA and offshore at Google Technologies. Hyderabad. My roles and responsibilities included gathering requirements, developing and delivering web based applications for supply chain logistics department of Google Inc. Used GWT, Java, Java script, Struts, Google App engine, Google Cloud Technologies, JDO, JPA, Perforce, Design Patterns.
- Major accomplishments included developing custom components on the UI and delivering them in a challenging deadline.

Credit Suisse:

- Worked at Credit Suisse Pune and New York. Roles and responsibilities included requirement gathering, developing and delivering batch programs.

Presented a white paper internally on Open Source and Cloud Technologies

Cognizant Technology Solutions | India | USA

2005(September) - 2011 (June)

Designation: Associate Projects

Cognizant Technology Solutions is an American multinational corporation that provides custom information technology, consulting and business process outsourcing services. It is headquartered in Teaneck, New Jersey, United States.

Worked on various telecom projects at onsite and offshore in the OSS/BSS domains. Worked with Clients in Vietnam, US, Germany, Thailand. Roles and responsibilities included gathering requirements, developing web applications, batch applications and delivering the applications at Client location. Technologies used : Java, Java Swing, Struts, Seam framework, Javascript, JQuery, Oracle.

FreeLancer (2014 – 2015)

Project Name: (VAAD) Vidipath Authentication Analytics Dashboard

Duration: 8 Months, Nov 2014 - tillDate

Technology: Java, JSON, C3.js,D3.js ,JSP, Servlet, JDBC, MySQL, JavaMail.

Designation: Developer

Location: Hyderabad, India

The Vidipath Authentication project is to authenticate the DLNA clients/devices which are subscribed to the services provided by the provider. The VAA application authenticates client devices using SSL certificates and logs these authentication in logs.

The project involved developing an application to capture the statistics and present the statistics of the device authentication using C3.js and D3.js. The analytics dashboard gives a summary of successful and failure authentication for various devices.

Project Name: Predicting Which iPad listed on eBay will be sold in Kaggle

Technology: R Programming Language, R Studio, R Packages (lm, glm, RandomForest, caret, caTools, tm)

Sellers on online auction websites need to understand the characteristics of a successful item listing to maximize their revenue. Buyers might also be interested in understanding which listings are less attractive so as to score a good deal. As part of the kaggle project, developed an analytic model that will help predict the sales success of a set of Ebay listings for Apple iPad from Spring 2015.

Using the train and test data set , developed bag of words for description , performed logistic, cart, random forest models on the training set and later evaluated on the training set.

Scalable Machine Learning using Apache Spark:

Technology: Apache Spark , Python, Matplotlib, PySpark, Numpy, Spark MLlib,

1. Perform analysis of neuroscience imaging data using principal component analysis and feature-based aggregation. As part of this exercise , Neuroimaging Analysis via PCA - Identify patterns of brain activity in larval zebrafish was performed. Time varying images provided through a process called as light sheet microscopy was given. PCA was developed from scratch and then applied to the imaging data to identify distinct patterns across zebra fish brain that are induced by different types of stimuli.

2. Click-Through-Rate (CTR) prediction pipeline using Criteo Labs dataset

Created a CTR prediction pipeline using Apache Spark's Python API, NumPy, and Machine Learning library (MLlib). Use categorizations based on One-Hot-Encoding (OHE). Reduce dimensions using feature-based hashing. Techniques used

were linear classification, logistic regression, working with probabilistic predictions, categorical data and one-hot-encoding, feature hashing for dimensionality reduction

3. Linear Regression Model for release year prediction of songs

Create linear regression models for release year prediction based on audio features of songs. Used the million song dataset. Perform analysis using Spark's Python API and Machine Learning Library (MLlib), on Databricks' Apache Spark cloud platform. Techniques used were Linear regression formulation and closed-form solution, gradient descent.

4. Movie ratings prediction using Movielens 10M ratings dataset

Created prediction models for predicting movie ratings using Apache Spark and MLlib. Used collaborative filtering, low-rank matrix factorization, and Spark's alternating least squares (ALS) algorithm for training the model.

5. Text Analysis and Entity Resolution

Resolved entities from google and amazon datasets. Created weighted bag-of-words model for text data. Used Term Frequency-Inverse Document Frequency (TF-IDF) weights for the model. Did implementation in Apache Spark using Python API.

Wipro Technologies (2011 - 2014)

Project Name: RDM - CDU , Credit suisse

Duration: 3 Months, Jun 2014 - Aug 2014

Technology: Java, XML, Spring , Spring Batch, EBX MDM Platform

Designation: Module Leader

Location: New York , USA

Description:

Reference Data Management project is about maintaining data over a period of time and that which does not change throughout the lifecycle of trade. It is the data used for legal contracts, Legal Entities and other counterparties. As part of this project , Spring Batch has been used to transform the data in legal contracts from various sources and update the transformed data into EBX platform.

As part of this project, developed spring batch process for contracts and also was involved in cipher module to encrypt the password.

Project Name: Wrinkles Project, Google Inc

Duration: 6 Months, Jan 2014 - Jun 2014

Technology: Java/J2EE, Java Script, XML, Struts, JDBC , Oracle.

Designation: Module Leader

Location: Hyderabad , India

Description:

Wrinkles project is part of the various modules of the supply chain portal maintained by the logistics team. As part of demand planning and forecasting, enhancement were required to include Requested delivery date for Bill of Materials in the planning module. The enhancements included developing a new smart BOM and enhance the existing UI.

Project Name: Master Data Managment, Google Inc

Duration: 4 Months, Sep 2013 - Dec 2013

Technology: Google Web Toolkit (GWT), JAX-RS Restful webservices, Google Cloud platform, Google App Engine.

Designation: Module Leader

Location: Hyderabad , India

Description:

Google uses various tools in IT Department to manage its data. Master Data Management UI is a web application to read, write data into google cloud NOSQL database. The various locations, customer names, legal entities names are stored in the NOSQL database to retrieve and update the database. The UI was developed using Java, GWT and used restful webservices to interact with the Google Database.

Project Name: Chain Metrics, Google Inc

Duration: 6 Months, Mar 2013 - Sep 2013

Technology: Google Web Toolkit (GWT), JAX-RS Restful webservices, Google Cloud platform, Google App Engine.

Designation: Module Leader

Location: Mountain View, USA

Description:

ChainMetrics is an Web Application to calculate the metrics and carbon footprint during the entire cycle of the supply chain Shipping requests. This project was to migrate the existing application to new google infrastructure as to be more robust and get feeds from various sources and evaluate the freight costs. As part of this project, my role was to interact with various team members, develop the UI components in GWT and integrate them with the back end components.

Project Name: SR Plus, Google Inc

Duration: 2 Months, Feb 2013 - Mar 2013

Technology: Google Web Toolkit (GWT), JAX-RS Restful webservice, Google Cloud platform, Google App Engine.

Designation: Module Leader

Location: Hyderabad , India

Description: __

Google is having data centers at different locations serving for the end users search operations. For maintaining this data centers google keeps track of performance of each component of the computer system such as cpu, battery box, different cables and other parts of computers. The current project keeps track of all these items and if needed will send those items to vendors who supplied it for replacement. The role in the project was to interact with client, various team members and develop web application on Google app engine using cloud technologies like GWT, Cloud Storage and Cloud SQL technologies.

Project Name: Kiosk Migration

Duration: 3 Months, Nov 2012 - Mar 2013

Technology: Google Web Toolkit (GWT), Google App Engine, JDBC, Struts, JSP and Servlets, Oracle, Google Data Store.

Designation: Module Leader

Location: Hyderabad , India

Description: __

The primary objective of this project is to develop an application which would provide an accurate and easy solution to check, maintain and order inventory for items in the Data Center. The proposed solution will be achieved by introducing a kiosk at the Data Centre. The application would help prevent duplicate orders on the same item by different users in the Data Center and also avoid overstocking. The overall responsibility was to develop an kiosk application for the supply chain and migrate the already existing kiosk application from data centers to a centralized portal.

Project Name: Wolf UI

Duration: 3 Months, Sep 2012 - Nov 2012

Technology: Java, Google Web Toolkit (GWT), Google App Engine, Google Data Store.

Designation: Module Leader

Location: Hyderabad , India

Description:

Wolf Project was a redesign to lay down the rules engine as part of the supply chain portal. The wolf portal was to develop a logistics rules ,finance rules and operation rules as part of the portal. Technologies used were GWT,NoSql google database and Jersey API for rest web services

Project Name: RMA Phase 2

Duration: 6 Months, Mar 2012 - Aug 2012

Technology: Java, Google Web Toolkit (GWT), Google App Engine, Google Data Store.

Designation: Module Leader

Location: Hyderabad , India

Description:

The RMA process refers to reverse logistics “the process of managing swapped units from the fleet, through the process until they are determined to be scrapped, repaired or good (i.e. misdiagnosis). This effort is to define the Process and develop the systems that manage tracking of the RMA units from end to end. While the processes and applications are developed to manage failed units from the server (Platform builds) fleet, the intention is to make this process globally usable by other business groups as well. This Implementation would help in achieving the following long term objectives: Track RMA inventory from Fleet to Vendor and back RMA Dispositioning Systemic dispositions where predisposition known Capability to manually disposition which will trigger material movement requests to 3PL Track Vendor turnaround time and Repair costs Automate Repair cost tracking in the system for 3-way Invoice matching Report on Credit Memos reported by the Vendor for manual reconciliation Track Units under warranty that the vendor replaces/repairs Report on RMA inventory. The role was to understand the requirements for the RMA phase 2. Design and develop the RMA portal using Java/j2ee technologies.

Project Name: RMA

Duration: 4 Months, Dec 2011 - Mar 2012

Technology: Java, J2EE, Struts, Java Script, JDBC , XML , Web Services.

Designation: Module Leader

Location: Hyderabad , India

Description:

The objective of this project was to have an initiative to enable the client to systematically maintain disposition/warranty information and to achieve an end-to-end integration of the return merchandise authorization (RMA) process with external vendors by enabling 360° tracking of inventory related to defective units.

The main role was to develop the UI using java/j2ee technologies and coordinate with the DB team to integrate the UI components with the back end components.

Project Name: RMA Disposition UI

Duration: 9 Months, Aug 2011 - Jun 2012

Technology: Java, J2EE, Struts, Java Script, JDBC , XML , Web Services.

Designation: Module Leader

Location: Hyderabad , India

Description:

This project encompasses tracking defective units swapped out of the fleet through the entire review process.

This project involved developing a UI from scratch using GWT technology. The role was to develop the entire front end and integrate with the web service layer.

Project Name: EAS - ORA - GOOGLE

Duration: 3 Months, Jul 2011 - Sep 2011

Technology: Java, J2EE, Oracle, JDBC.

Designation: Module Leader

Location: Hyderabad , India

Description:

The Project was about enhancing the RMA process in the supply chain portal. The portal holds various information about inventory and process and integrate end to end with various external vendors. This included writing services and integrating them.

Cognizant Technology Solutions (2005 - 2011)

Project Name: Rodale Online Content Repository

Duration: 4 Months, Mar 2011 - Jun 2011

Technology: Java, XML, JQuery, Marklogic

Designation: Associate Projects

Location: Hyderabad , India

Description:

Rodale Syndication Online Content Repository is a web based application to syndicate different content. The application is used to retrieve the content from a Oracle database and store it in the Marklogic repository. The Application retrieves the documents from

the marklogic repository and customizes the content for a particular customer and then is syndicated for the respective customers.

Project Name: T-Systems NG Billing

Duration: 3 Months, Jan 2011 - Mar 2011

Technology: Java, Struts 2.0 Framework, Tomcat 6.0 , XML, Web Services, Axis-2, MySql

Designation: Module Leader

Location: Hyderabad , India

Description:

The project involved developing a NG (Next Generation) prototype CRM Billing application for partners and Customers of T-Mobile. The CRM Web portal displays the information related to the Customer, billing documents

and other information related to the usage of the service. The CRM portal could also be used to change the product of the customer from one to another. The Billing systems included Amdocs. The application would use web services to invoke the Amdocs API for retrieving information related to Customer.

Project Name: T-Systems Asset Manager

Duration: 6 Months, Jul 2010 - Dec 2010

Technology: Java, JSF, Seam Framework, JBoss 5.0 ,Ejb 3.0, XML, Web Services, Axis-2, MySql

Designation: Associate Projects

Location: Hyderabad , India

Description:

The purpose of the software system component Asset Manager is the realization of the whole transformation process including web GUI for operator access in internal state information. Asset Manager Application can be access by the graphical user interface through browser using the login name and password and Web Interface without any client installation. Asset Manager is a web based solution for managing computer assets like storage, service provider, memory, user management etc.

Project Name: Nokia Siemens Network, CAT Thailand

Duration: 3 Months, Mar 2010 - Jun 2010

Technology: Java,

Designation: Associate Projects.

Location: Hyderabad , India

Description:

Developed offline workflows using NSN charge@Once Mediate for the CAT Thailand network .This included collection of CDR files from one network element and passing it to another network element. The network elements from which the request are received by Billing Gateway are SMSC, MRBT, Movius UM/AA, Radvision Video Conference, CFX 5000, HIE9200, HIEQ4200, SIP IM.

Project Name: Nokia Siemens Network, Telus Canada

Duration: 3 Months, Nov 2009 - Feb 2010

Technology: Java,

Designation: Associate Projects.

Location: Hyderabad , India

Description:

Telus required Online charging solution using Charge@Once Mediate for the network. This required developing Online charging solution for Telus Canada. The role was to interact with Client and develop online workflow on CMD for Telus networks.

Project Name: Nokia Siemens Network, Mobifone Vietnam

Duration: 3 Months, Aug 2009 - Oct 2009

Technology: Java 1.6, Apache NET FTP API, Sun HA Clusters, Solaris

Designation: Associate Projects.

Location: Hyderabad , India

Description:

The Project involved implementing the java based charging solution which included integration with the network elements like SGSN and GGSN.

My role was to implement the Java based charging solution on Sun Solaris HA Clusters that included registering the java based charging solution with the Sun Solaris clustering software.

Project Name: Nokia Siemens Network, Vodafone Vietnam

Duration: 6 Months, Mar 2009 - Aug 2009

Technology: Java 1.6, Solaris, Java Swings, CMD

Designation: Associate Projects.

Location: Hyderabad , India

Description:

The Project involved postpaid charging mediation solutions for Vinaphone, in Vietnam. This included workflows integration with the network elements that includes SGSN,GGSN and the Billing Systems. The workflows were developed using NSN charge@Once Mediation engine.

Project Name: Alltel Communications

Duration: 12 Months, Jan 2008 - Jan 2009

Technology: Java , JSP, Servlets, EJB, Weblogic 8.1, Oracle 10g

Designation: Associate Projects.

Location: Hyderabad , India

Description:

The project for Alltel eBusiness Application team. The eBusiness team is responsible for maintaining a group of web based 'ebusiness' applications. The portfolio of ebusiness applications included several applications such as eWave(Used by Alltel's agents and resellers to sign-up customers with Alltel) .

Release manager for the installs. The role of the release manager was to prepare the implementation notes, build code and include all the code modules that were going into the CR.

Project Name: EDS MCSP and EDS COPS

Duration: 12 Months, Jan 2006 - Dec 2007

Technology: Java , Struts, Ajax, Laszlo, Visionael NRM, Tomcat Web Server.

Designation: Associate Projects.

Location: Hyderabad , India

Description:

The MCSP program is scheduled for development in phases and the intention of the MCSP OTA/GNOC project Release 1A (R1A) is to deploy a prototype OSS application based on the Visionael tool that will allow for the provisioning of seven EDS services that includes the R1A functionality of the MRS (Managed Router Service), the MLS (Managed LAN Service), Local Loop Access, VPN Access, Frame Relay, Bonded Point To Point sand Out of Band Management products. The overall purpose of the following project was to establish a methodology to support the circuit data migration from COPS ("EDS' Legacy Provisioning System") into Visionael and to eventually decommission COPS. In this project, CPS (Control Point Solutions) creates a reconciliation workflow system and transactional database to reconcile the COPS circuit inventory to the vendors' billing inventory.

As part of the projects was involved in the complete SDLC life cycle including Requirement Gathering, Analysis, Design, Development, Coding and Testing.

Education:

Graduation :MVSR engineering College B.E. Mechanical (78%)	2001-2005
Intermeidate / 12th : VMS Junior College MPC (80.5%)	1998 - 2000
Sri Vidya Secondary School CBSE (80.5%)	1987 - 1998