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Masters of Computer Application
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Professional Synopsis

- Around 2 years of Experience in the areas of Requirement Analysis, Design, Software Development, Testing and Maintenance.
- Proficient in JAVA, Multithreading, JDBC, Servlets, JSP, XML, UML
- Proficient in Web Services technologies like REST, SOAP, WSDL.
- Experience in developing and deploying Java Servlets, Java Server Pages (JSP) using Eclipse environment and JBoss and Apache Tomcat.
- Proficient in Software configuration management and version control.
- Excellent hands on experience with databases like MySQL, PostgreSQL.
- Excellent hands on experience with shell, bash and batch scripting.
- Excellent hands on experience with Hadoop and Unix command line environment.
- In depth expertise in Object Oriented Design for making application reliable and stable, worked with tools like StartUML and Visio.
- Extensively worked with Repository tools like GIT and SVN.
- Excellent written and oral communication to facilitate communication between team members, users, developers, and management.

Educational Qualification

Examination	University	Institute	Year	%
Post Graduation	Mumbai University	A.C. Patil College of Engineering	2014	62.09
Graduation	Mumbai University	Mulund College of Commerce	2011	68.40

Professional Experience

Associate Software Engineer, Itiviti AB

(Mar '16 – Present)

I am responsible for requirement gathering, client coordination, project development and delivery.

Tbricks Migration from Orc Trader (US)

(May '16 – Present)

This is a migration project from existing ORC Trader Software to Tbricks software for Merrill Lynch. Orc Trader is a trading application for listed derivatives. Tbricks is a high-performance financial trading platform. Tbricks is easily customized, scalable, co-located and fast trading platform. Tbricks automate sophisticated strategies on trading venues.

- Gather client requirements by coordinating with the clients.
- Develop tools to migrate exiting ORC configuration files to TBricks compatible files.
- Developed a transformer which reads the structure from an XML file and creates the expected FIX format.
- Implemented a lightweight parser which reads the FIX messages and saves the start and end position of every field. This parser is then used to extract fields from the actual message.
- Created exhaustive JUnit test cases to meet the challenge of preserving existing functionality of each module. Performed integration tests by playing back client logs.
- Publish changes using GIT versioning tool.
- Coordinate with client and verify the post implementation of the tool.

Migration from Quickfix to Catalys Fix (Mexico)

(Mar '16 - May '16)

The existing system used Quick Fix for its core message exchange which needed to be upgraded to Catalys Fix Engine for Mexico Stock Exchange. Catalys is a FIX protocol messaging infrastructure for the capital markets industry.

- Gather client requirements by coordinating with the clients on regular basis.
- Understand and implement the change requests by the client.
- Change core java classes to replace QuickFix classes to Catalys java classes.
- Convert Fix Message to Java Object and send to existing API.
- Write Unit Test Cases to test the classes.
- Publish changes using GIT versioning tool.

Associate Software Engineer, Camerontec Group India Pvt. Ltd.**(Mar '15 – Feb '16)**

I was responsible for interaction with client and understanding business requirements, analysis of Business needs, and to develop and deliver solutions to business requirements.

Migration from ORC Trading Protocol to FIX Protocol (Switzerland)**(Feb '16 - Mar '16)**

This tool was built to migrate ORC Trading Protocol to FIX Protocol for Sungard.

- Developed a transformer which reads the structure from an XML file and creates the expected OMS/FIX format.
- Implemented a lightweight parser which reads the ORC messages and saves the start and end position of every field. This parser is then used to extract fields from the actual message.
- Created exhaustive JUnit test cases to meet the challenge of preserving existing functionality of each module. Performed integration tests by playing back client logs.

Panacea Trade Adapter Enhancement (Zurich)**(Jan '16 - Feb '16)**

This project is a real time interface between Bloomberg and ORC which is used to transfer real time trades from Bloomberg to ORC. Executions (trades) received from Bloomberg are validated, enhanced, transformed to ORC API and then published to ORC. Quotes and trades received from ORC are published to fix clients.

- Designed and developed the application to fit in the catalys framework.
- Developed a transformer which reads the structure from an XML file and creates the expected OMS/FIX format.
- Implemented a lightweight parser which reads the ORC messages and saves the start and end position of every field. This parser is then used to extract fields from the actual message.
- Created exhaustive JUnit test cases to meet the challenge of preserving existing functionality of each module.
- Performed integration tests by playing back client logs.

Log Anayser (Camerontec)**(Jan '16)**

This tool is used to analyse the fix messages and extract an order chain from a given log file.

- Understand the client requirements.
- Design and develop the log analyser using java.
- Write Junit test cases for the log analyser.

Migration of Cameron Fix Configuration to Catalys Fix Configuration (New York)**(Aug '15 – Dec '15)**

This migration was done for RBC for their implementation of Cameron Fix Engine, it was required to develop tool which could migrate the existing configuration to Catalys Fix configuration according to FIX specification.

- Develop script to convert Cameron Fix config to Catalys Fix config format.
- Testing and Implementation of Catalys Fix configuration.
- Developed a transformer which reads the structure from an XML file and creates the expected FIX format.
- Implemented a lightweight parser which reads the FIX messages and saves the start and end position of every field. This parser is then used to extract fields from the actual message.
- Created exhaustive JUnit test cases to meet the challenge of preserving existing functionality of each module. Performed integration tests by playing back client logs.

Net Trader Enhancements (Istanbul)**(Jul '15 – Aug '15)**

This is a monitoring tool developed using struts framework. It has a web based GUI which displays all orders that have passed through catalys fix engine. It is capable of executing various actions (ACK, Reject, Cancel, Cancel Reject, Fills, Trade Cancel) on such orders and is useful in case of any discrepancies, where the order did not reach the end-client. This is a pluggable project which was used in Splitter OMS.

- Created console command executor batch script using shell and batch script for Unix and Windows respectively.
- Created schedule task console command using java and JMS.
- Service processor reads csv and stores data to memory.
- Created commands reload_customer and reload_symbology using java and jms
- Created commands list_customer and list_symbology using java and jms
- Created start_node catalys node batch script.

ActionListener and Control (Singapore)**(Jul '15)**

Created custom actions and controls for catalys implementation of Singapore stock exchange.

- Understand the client requirements.
- Design and develop the ActionListener and controller using java
- Write Junit test cases to test the implemented ActionListener and Controller.

Hadoop HA Cluster Setup and MapReduce log storage and manipulation (Camerontec) (May '15 – Jul '15)
Setup a Hadoop multi node HA cluster with 1 Name node, 1 Secondary Name Node, 3 Data Nodes, 2 Job Trackers and 3 Task Trackers for Camerontec and made documents related to the same to show a plan of execution.

- Implement a Hadoop High Availability architecture in 3 independent systems.
- Write MapReduce to read logs and store it to nosql database such as hbase and write a java code to perform CRUD operation on the same.

Trainee Software Engineer, Intelliswift Software India Pvt. Ltd. (Mar '15 – Feb '15)
I was responsible for developing crawler to parse product related sites and generate XML of the entire site. I was also responsible for development of tools which would help developers and testers to check site performance using big data technology like Hadoop.

XML Parse into Hadoop Hbase Database (Intelliswift) (Jan '15 – Mar '15)
Convert existing XML Data into format (csv or txt) and push the data into No Sql Database such as Hive or HBase using Map Reduce.

QC Tool (Intelliswift) (Nov '15 – Jan '15)
Develop a tool for the software testers which is used by the QA team to check the health of a site and report a bug automatically when it hits dead site.

Crawler (US) (Mar '15 – Nov '15)
Crawl the website and extract the product of the site and convert the site to XML which is stored in the database and reflected onto a fashion site.

Other Projects

Random Password Generator App

This app is live in Android Play Store, it is used to generate random, password of user desired length from 8 to 32 characters with alphabet, number and special characters.

Sentiment Analysis of reviews of retail products

Develop an application which will crawl the retail site and extract the comments from the same. Then the comments are categorized as positive and negative comment using Deep Learning (Naive Bayes' Algorithm).

Content Order Process and Operations Management System

Content Order Process and Operations Management System is a CMS system which is used by the company for recording and maintaining the progress and status of an order.

Financial Forecasting System

Financial forecasting system is Windows application software which is used to predict the financial status and forecast the budget consumption for the company.

My College Diary

My College Book is an open source web application developed to bring teachers and students under one network, teachers can share notes, videos, articles etc. and students can view articles, notes, submit assignments, teachers and students can also have a live chat with each other.

Data Entry and Product Management System

Data Entry and Product Management System is a web service to take product details from user and save it to the database and higher management may see the data in form of report or in bar or pie chart format.

History

I joined Camerontec group as a Trainee in March 2015. Camerontec group then had a merger with Orc Group to form ITIVITI AB. Before Camerontec I had been part of Intelliswift from March 2014 to April 2015.

The above mentioned information is true to my knowledge

Nilesh Chakraborty