SUDHIR KUMAR THAKUR Block III, 2C, Akshara Housing Complex

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Around 14+ years of professional experience in software development on enterprise & web applications, mapping business problems to technical solutions, delivering customer value and driving revenue. Specialist in cutting edge design and architecture, server internals, cluster setup and monitoring and performance tuning. Now focusing on Hadoop, BigData, NOSQL and Cloud Computing.

Technical Skills

* + - Hadoop ecosystem - Hadoop, MapReduce, Hbase, Sqoop, Hive, Flume, Zookeeper, Pig, Oozie, Kafka, cassandra.
    - Managed Hadoop clusters : setup, install, monitor, maintain; Distributions : Cloudera CDH, Apache Hadoop
    - Cloud Environment – Heroku, AWS, CloudFoundry, Openshift.
* Language – Java, Groovy, Ruby, Play, C, C++, Visual Basic 6.0.
* Web Specialization - JDK1.6, JPA, J2EE (EJB, JDBC, JNDI, JSP, Servlet, JMS, JTA), Java Beans, RMI, Networking, XML/XSLT, JAXP, JAXB, JAAS, Jakarta-Struts-1.2 and web services technology(SOAP, UDDI, WSDL and ebXML), Spring 3.0, Hibernate 3.0, JQuery & Ajax.
* Web Application Server - Tomcat 6.0, Oracle 9iAS, Weblogic Server 10.2.
* Tools - Oracle 9i JDeveloper, Eclipse 3.1, Intellij Idea 13.0, VSS 6.0 (Visual source safe), Microsoft Visio and IBM WebSphere MQ Server 6.0, SVN tortoise., Github, Jenkins, Altassian Bamboo
* Operating System - WIN.9X/NT, MS-Dos, UNIX.
* RDBMS - MS- Access, Oracle 11g & SQL Server 2000,
* Reporting Tools - Crystal Report 7.0,iReport5.2
* Business Domain - BFSI, energy & utility, telecom and logistic domain

###### Work Experience

* Current Employer: Currently working in Accenture Service Pvt. Ltd.(Kolkata) since 18th Jul, 2011.
  + Project: Fraud detection in banking service using Hadoop, Since May 2013
    - Provide Big Data strategic planning, technology roadmap, proof of concept, design and implementation for fraud detection in banking system using hadoop ecosystem in cluster environment and focused on Java based technical stack, Map Reduce and NoSQL databases.
    - It uses predictive analytic model to spot anomalies that might suggest fraudulent behavior using hadoop mapreduce for offline data.
    - Created architecture stack blueprint for accessing data using cassandra. Extract the data from external sources using web service and transform it using storm and store to cassandra database. After this executed the pig command on these data for analytics and again store data in cassandra database. Now data is available for populating UI through Rest call to cassandra database also worked in migration of high-volume OLTP transactions from Oracle to Cassandra. Designed noSQL column family, Cassandra tuning during migration from Oracle database.
    - It also detect commercial card transaction as valid/invalid based e.g. location of transaction, date, amount, purchased item or service, history of transactions and similar transactions.
    - Data was injected from different system using Apache flume and sqoop. Cassandra was used to store the data. Used the apache oozie for workflow.
    - Developed dashboard using grails to render different alerts.
  + Project: Log file Analytic with Hadoop (Oct 2012 - Apr 2013 )
* Prototype big data system to populate a data-warehouse by processing different types of logs collected like server logs, application logs in order to analyze result by the cookie id, which identifies a unique visit or session. After collecting the data using Apache flume, it was processed using Oozie work-flows, and stored in Apache Hadoop HDFS using Apache HCatalog and analyzed using Apache Hive and Apache Pig.
* Front end was developed using grails and the results were rendered on the dashboard using google graph.
  + Project: Scanning of distributed caching with Memcache in Amazon AWS (Jun 2012 – Sep 2012 )
    - Design and implemented the cloud solution architecture for web application on Amazon Web Services (AWS)
    - Build a scalable and reliable large-scale scanning of memcache object. The core component of this architecture is Amazon Elastic MapReduce, a web service that enables to process large amounts of data easily and cost-effectively using a Hadoop hosted framework and stored the data in memcache. It can also store the custom classes.
    - Used the server side stats command like “stats items”, “stats cachedump <slab><limit>” etc. to scan the memcache object using JRuby.
    - Implemented Altassian bamboo for code change control in amazon web service
  + Project: CloudFoundry Data Integration & Recommendation Analysis (Jan 2012 – May 2012)
    - Installed private cloudfoundry on Amazon AWS on multiple node environments using the cloud foundry bosh.
    - Created custom service broker for accessing third party services provider like mysql db using ruby/Json.
    - Developed an application for registering a new user to cloudfoundry environment, for monitoring the different component like DEA, UAA, Cloud Controller, health manager
    - Designed and developed web based application using Ruby for cloud founry application instance creation, code deployment, creation and binding of service with application, restart of application deployed on cloud foundry instance.
    - Configured Loggregator with CF v2 and moved log file to Splunk and executed hadoop map reduce program on log files and saved the data to Hbase and use data as recommendation engine.
  + Project: Porting Shopping cart application to Heroku Cloud Environment, (Jul 2011 – Dec 2011)
    - Design and developed a shopping cart application and ported the same to heroku cloud environment.
    - Different module in shopping cart application is Admin module to update the quantity/price of different product, service provider to provide the web service implementation for credit card validation and invoice processor & batch scheduler for persisting product details using spring batch.
    - Application has been developed using Spring security for Authentication, Password encryption using SHA, Spring MVC Used for the online web app (shopping cart and admin),HttpSession Used for the shopping cart, EHCACHE for storing user data and codeDecodeCache for storing data from the custom code decode framework,
    - Spring Webflow is used for the shopping cart checkout flow, Spring Core for all bean configuration and context Spring Transactions for using the JpaTransactionManager, Spring JPA/Hibernate for database access and ClearDB MySQL for Database in Heroku cloud environment.
    - Also involved in developing unix cron tab like utility pattern for heroku scheduler and provided the standalone jar implementation and restful web service implementation for same.
    - Also involved for secured connectivity between the application deployed on Heroku cloud environment with ClearDB mysql database
    - Involved in configuration and implementation of New Relic and Blitz in heroku cloud environment for real time performance monitoring purpose.
* Previous Employer: Worked in Polaris Software from 06th Sep, 2006 to 15th Jun, 2011. Polaris Software, a leading Information Technology company in India, specialized in Banking and Finance software products and services.
  + Project: Sanction Check & Global Interdict, Since Jul’2010 to Jun’2011
  + Client: Citibank, EMEA.
* Sanction Check is a workflow engine for incoming Swift messages from client. It populates the potential hit information to the users through Graphical User Interface (GUI). GUI then also helps user take action on deciding the potential hit to be a confirmed hit or else clear off the transaction as clean. Workflow maintains the audit of all the activities at user as well as particular transaction level.
* Global Interdict is a functional server that provides text-matching services. By comparing client-supplied text strings with text strings maintained in the memory of application by fetching the details from the database during the start up of application, Global Interdict receives client requests to check text and returns the results in the form of detailed match information. Text-matching parameters may be exact or loose and are set by the user. Client businesses as well as government agencies provide the stored index of data on the Global Interdict server. Users have access to the database through a graphical user interface, and user profiles control whether a user can modify or only view data.
  + - Design the application using Struts 1.2, spring, Ant, JDK 1.6, Oracle 11g, JSP, java script, Servlet, RMI, Hibernate & Ajax, Web service & design pattern and deployed on IPlanet server.
    - Involved in designing and parsing of swift message for different application interfacing with sanction.
    - Involved in designing of scanning of transaction for matching pattern that can be screened against specific list and list provided by regulatory bodies.
  + Project: ICS (Integrated Clearing System).Jul’2008-Jun’2010.
  + Client: Citibank, India.
    - ICS application acts as a single point of contact for RBI and provides an interface between RBI and the respective accounting system such as OASIS, FLEX, CARDS and CARDD.
    - Different module in this application is inward clearing, outward clearing, inward return, outward return, in-house processing, ecs (debit, credit), discrepant check and maintenance screen.
    - Different operation that can be performed in each module is merge, upload, processing, rectification, authorization, handoff/report generation, reject entry/authorization and reject handoff generation.
    - Involved in designing and implementation of different use case using Struts 1.2, Spring, J2SDK 1.6, Servlet, JSP, EJB, JDBC, JMS, XML, XSLT, JavaScript, Oracle 11g, Hibernate, Web Service, ant and deployment on Weblogic10.2.
    - Design and implementation of customized AJAX like feature as per the user’s requirement.
    - Involved in designing of generic upload program for CSV and flat file through stored procedure.
    - Designed for automatic mail send program to authorizer for repair to be taken on production database using shell script.
    - Involved in integration of ICS application with the client specific security system (Armor) for login of different branches user authentication and authorization.
    - Track issues and develop plans to correct the implementation process immediately. Escalate problem for prompt solution.
    - Empower team member to take ownership and be held accountable for project deliverables.
      * Project: CFX -Corporate Foreign Exchange, (Forex dealing System*)*. Jun’07 to Jun’08.
  + Client: Citibank, Korea.
* CFX has been recognized as the most "Innovative Application" for the FX Corporate Desk and an "Integrated Application" like CFX helps the traders to react quickly to adverse market movements and helps to service corporate clients effectively.
* Design, build the application using J2SDK 1.4, JSP, EJB, JDBC, JMS, JavaScript, MQ Server 6.0, Oracle 10g, Struts 1.2,Spring, Hibernate, Ajax, Web Services and deployed on Weblogic8.1 SP5.
  + - Straight through processing of deals from Partner units/Front-office to Mid-office & Back office
    - Automatic cover of deals with Inter-Bank Desks and real time P&L, positions and other analytics
    - Documentation tracking to comply with the Central Bank legal requirements.
    - Design the flow of real time deals through trestle using MQ server, XML, XSLT and hibernate.
    - Auto refresh of deals in other user’s screens for the deal booked by any user through JMS.
    - Managing the delivery of work items which include design, work estimation, code and design review create unit test plan, schedule BA walkthrough and receive the user sign off.
  + Project: FIRM(Front Office Interest Rate Derivatives Risk Monitor), Sep’06 - May’07.
  + Client: Citibank, Singapore.
* It helps FX desk trader in Citibank to know their current positions and the risk across the different country/ currency/ products segments. It consists of three frames Blotter, Market Monitor and Radar.
  + - Blotter is used to capture deal information for different product like Swaps, bonds, FX and Futures.
    - Design the application using Struts 1.1, Ant, JDK 1.4.1\_10, Oracle 10g, JSP, java script, Servlet, EJB, RMI, Hibernate & Ajax, XML, XSLT & design pattern and deployed on Weblogic8.1 SP5.
    - Design and developed real time refresh of Reuter’s rate in market monitor using database trigger, java stored procedure, RMI for each yield curve and a specific product in different panes.
    - Utilize Java thread for calculation of reval process to compute PNL for different products/yield curve and tenor and to display of same on radar screen.
    - Guided the team for integration with client specific security system, CitiSafe for authentication.
    - Design for optimization of client and server side caching for faster processing of reval operation.
* Previous Employer: Worked as a software consultant in AMI Industries (India) Pvt. Ltd. between 6th May 2003 and 25th August 2006 and placed in Tata Consultancy Services Ltd. on deputation basis.
  + Project: SAS (Swale Authentic Server)-Nene, Apr’2006 to Aug’2006.
  + Client: British Telecommunication.
    - The SAS (Swale Authentic Server) application is the key component in the provisioning of service to user of crack/UMC mobile instance messaging service after accepting the SMS from Users.
    - It insert/update data into various external applications through interface, tracking and managing the request flow and sending email and welcome message to user after completion of process.
    - Involved in gathering of requirement from customer and preparation of low level design using Struts framework, web services, JSP, EJB, JDK 1.4, Oracle10gR2 and deployment on Weblogic8.1.
  + Project: IBA (Integrated Business Application), Oct’2005 - Mar’2006.
  + Client: Nuclear Power Corp. of India Ltd.
    - IBA is an ERP initiative, which caters to the interdivisional and intradivisional requirements in the arena of material management, financial management, human resources management, operation and maintenance, fuel management, payroll accounting, energy billing and energy accounting.
    - Utilized Struts 1.2, JSP, Servlet, EJB, JDK 1.4, JDBC, Oracle 9i, Java Script in the design and development of scrape module, a sub module of inventory system and deployed on Oracle 9iAS.
* Project: Web EN’RGISE (Enterprise Related Generalised Information System),May’03 – Sep’05
  + Client: NHPC, India.
    - Web EN’RGISE has been developed in the line of ERP package to manage the online business transaction of any organization, especially those in the energy and utility sector.
    - The main objective of this package is to identify the common and generalized requirements of energy & utility sector and implementation of same in a package so that it can be fruitfully adopted by the organization with minimum reorientation in their existing infrastructure.
    - Designed, developed & build Inventory System, Purchase System and Inventory Accounting System, a sub module of Material Management System using Struts1.2, JAXP 1.1, JSP, Servlet, JDK1.4, JDBC, Oracle9i, JavaScript and deployed the same on Weblogic Server 7.0.
    - I was also involved in writing SRS, Test Plan, DFD, Flow Chart and user Manual.
* Previous Employer: Kanika Infocom Global Ltd. (Kolkata) 2-May-2002 to 30-April-2003.(Software Engineer)
* Project: Enterprise Courier Management System, May’2002 – April’2003.
  + Client: Zodiac Express (Kolkata).
    - This Application has the capacity to control all activities of a courier company.
    - It helps the employee in maintaining the records of their client at the source and destination.
    - I was involved in writing Software Requirement Specification, DFDs, planning logic.
    - Developed different forms using visual basic 6.0 and database design in SQL Server 2k for transaction handling using stored procedure for Data Processing, Accounts & Finance Module.
    - I was also involved in creating help files and the integration of same with this application.
* Previous Employer: Flash Infotech Pvt. Ltd. (Bangalore) 22-Feb-1999 to 25-April-2002.(Programmer)
* Project: Production Planning & Control System, Jan’2001 - Apr’2002.
  + Client: G R Polyfilms Pvt.Ltd. (Kolkata)
    - The primary objective of this software is to ensure smooth functioning of all processes and the optimization of the production system for maximum profits.
    - Total production planning from procurement of raw material stage to the delivery of finished products to the market for distribution can be controlled using this software product.
    - Actively involved in the development of multiple modules inventory, order processing and operation planning using visual basic 6.0.
    - Involved in writing triggers, stored procedure etc. using PL/SQL in SQL Server 2K database.
    - Involved in development of detailed query Reports using crystal report 8.0.
* Project: Automobile showroom management system, Mar’1999 - Dec’2000
  + Client: Teknik Motors(Bangalore)
    - This project consists of customer details, customer order status details, different company vehicle sales and services details, different customer vehicle dispatch details and invoice details.
    - There is a search engine which can search data according to customer record, order records, company records by name, dispatch records and according to bike color and modules.
    - Involved in coding for development of different forms using Visual Basic 6.0 and oracle 7.0 for adding, deleting, fetching and updating of records in the database.
    - Used crystal report 7.0 for the generation of different kind of monthly and yearly reports.

### Previous Employer: Texmaco Ltd. (Kolkata) From 11th August1997 to 12th February1999 (Staff Apprentice)

Completed a one and half year staff apprentice at Texmaco Ltd. (Kolkata), an ISO 9001 company, largest railway freight car manufacturing company in India, manufacturer of sugar mill machinery, hydro mechanical equipment, industrial boiler, road roller, chemical plant equipment and power tillers, as an apprentice between August1997 to February1999 for the industrial project after passing Section-A of AMIE.

Academic profile

* Passed A.M.I.E (Section-B) in Electronic and Communication Engineering from The Institution of Engineers (India) in June2000 and topped in A.M.I.E (Section-A) in Kolkata Examination center in December1997.
* Passed B.Sc. Physics (Honours) from Calcutta University in 1995.

Personal profile

Name : Sudhir Kumar Thakur

Date of Birth : 24th October73.

Father's Name : Mr. Radheshwar Thakur.

Extra curriculum activity

Elected as an executive committee member of West Bengal Technician Chapter of The Institution

of Engineers (INDIA) and continued as the committee member from September98 to August99.

(SUDHIR KUMAR THAKUR)