

Moitrayee Chatterje

Career Objective

My almost 8 years of professional engagement with Cognizant Technology Solutions, required me to be involved in techniques of handling and interpreting data. Handling massive databases, querying large data sets, designing database schema, writing efficient stored procedures and functions to retrieve data through complex queries and processing the results. From my professional experience, I realize that we live in the era of data explosion. Interpreting the humongous amount of data that is getting produced every single day, in real time is a big challenge both in industry and in academia. And that motivated me to pursue my higher studies in Big data and machine learning techniques to be able to handle the scale-free, structure free data. My research work concentrates on developing efficient algorithms for big data reliability.

Academic Qualifications

Degree	Duration	Institute	Percentage/ CGPA
PhD	2016- Present	Texas Tech University	
cPGDBA	2012-2014	Symbiosis Centre For Distance Learning	75.59%
B.Tech	2004-2008	West Bengal University of Technology	7.79
H.S(12th Std)	2002-2004	West Bengal Council of Higher Secondary Education	82%
Madhyamik (10th Std.)	2002	West Bengal Board of Secondary Education	77.25%

Professional Experience

Organization	Title	From	To
Texas Tech University	Teaching Assistant	Aug-2016	Present
Cognizant Technology Solutions	Associate	Feb-2009	Aug-2016

Proficiency

Programming Languages	C++, Java, Flex, Python, R
Operating Systems	Windows, Mac OS, Linux
Scripting Language	JavaScript, Action Script, MScript
Query Language	PL/SQL, T-SQL
Assembly Language	8085A, 8086
Database	Oracle, Sybase, SQL Server
Web/Application Server	Tomcat 5
Version controlling tool	Tortoise SVN, GitHub
Build tool	Maven, Ant
IDE	NetBeans, Eclipse, Text Pad, Notepad++
Framework	Spring, Struts, Pure MVC, Parsley
iPad Development Tools	AMP Studio, XCode
RIA tool	Adobe Flex 5
CRM Tool	SDFC, Oracle CRMOD

Professional Certifications Summary

Certification	Date
Oracle Certified Professional, Java SE 6 Programmer	April 2, 2011
Sybase ASE 15.0 SQL Developer Professional	May 25, 2010

Professional Experiences

Present role:	Graduate Student and Teaching Assistant
Institute/ Employer	Texas Tech University
Location	Lubbock, Texas
Department	Computer Science
Research Objective	Application of algorithmic paradigms to solve computer security problems, as well as developing time and space efficient algorithms to process large scale data, developing efficient image and data compression algorithms etc. are few areas of my interest. When randomized and approximation algorithms are extensively being used to develop real time algorithms to address big graph networks, I want to also focus on implementation side of it. Distributed algorithms implemented using Hadoop Map-Reduce, parallel implementation using Message Passing Interface and out of core algorithms are areas I particularly feel interested. Large scale data mining, graph mining, sequence and item set mining and clustering are areas of my interest.
TA Responsibilities	Every semester I have TA responsibilities of 3 different courses (both graduate and undergraduate) that includes: <ul style="list-style-type: none">➤ Help design course/lab, prepare lecture material, construct exam/quiz, teach classes.➤ Holding office hours to have one-to-one meeting with students to help them with any difficulties they face in the learning of the subject.➤ Grading lab/ assignment/ quiz/exam etc.

Project 1	Merck Malaysia SOD engagement
Client Name	Merck Sharp & Dohme, Inc.
Location	Kuala Lumpur, Malaysia
Technology	Oracle 11g, Oracle CRMOD
Description	Merck Sharp & Dohme, Inc. is a global research-driven pharmaceutical company dedicated to putting patients first. Established in 1891, Merck discovers, develops, manufactures and markets vaccines and medicines to address unmet medical needs. The company devotes extensive efforts to increase access to medicines through far-reaching programs that not only donate Merck medicines but help deliver them to the people who need them. Merck also publishes unbiased health information as a not-for-profit service. The project aims to implement MSD Connect (Oracle Siebel On Demand Rel-18) across all the major markets in Asia Pacific for the countries Malaysia, Indonesia, Vietnam, Philippines, Korea, China,

	Thailand, Hong Kong, Taiwan, Singapore. There has also been implementation across few countries in Europe such as Morocco, Serbia and Russia with many more countries to come in. There is also plan to implement MSD Connect Program across eight different markets in Latin America which includes about twenty countries in that domain. Along with the implementation of MSD Connect, integration with the Legacy systems for various countries is performed with the help of SQL Server 2005 SSIS and web services. The scope of the current project has also increased significantly with the current merger of Merck and Schering Plough (SP), with data integration taking place for APAC from both Merck and SP data.
Key Responsibilities	<ul style="list-style-type: none"> ➤ Analyzing, Designing, Developing, Unit Testing and Maintaining Various Modules/Routines related to Migration and Loading of Data. ➤ Resolving incidents related to data Migration and Data Integration as well as application. ➤ Acting as a data integration coordinator and data integration expert in Oracle Siebel On Demand, identifying key developments and opportunities. Performing data loads for multiple environments simultaneously. ➤ Understanding the integration requirements directly from end users and help in implementing the design development process. ➤ Implementation of the virtual private database for data security and visibility according to the Country. ➤ To suggest and highlight key improvement areas across projects as part of the process improvement.

Project 2	Mobility Application Development
Client Name	Novo Nordisk Europe
Technology	AMP Studio, Java, XCode, SVN
Description	<p>This project encompasses developing mobility application to fit into handheld iOS devices (Apple iPad). This application is meant to assimilate with Siebel pharma backend. Few mobility applications e.g. iSelas, iSelasFSM as well as solutions such as Caffin have been developed for iPad. iSelas is solely fabricated for Sales Representatives to chalk out their activities, events, customer visits, institution call plans, timesheet maintenance in a single go. On the contrary, iSelasFSM app is developed for Field Sales Manager whom the sales representatives report to, to meet the objective of FSM's evaluations of the SRs along with visibility of reporting SRs activities.</p>

	Caffin colution is another app developed primarily for insurance policy agents to plan for their insurance sale practice. This app will aid them maintain the customer details, their purchased policies, products and all nick-nack details associated with them.
Key Responsibilities	<ul style="list-style-type: none"> ➤ Responsible for designing the technical functionalities so that it can be fed into existing architecture along with several constraints. ➤ Developing components depending upon business requirements. ➤ Performing unit testing of the developed components. ➤ Preparing SIT execution plan.

Project 3	ING-BE LCM Bucket2 Assessment
Client Name	ING Bank
Technology	
Description	<p>LCM Migration factory aims at the reduction/removal of legacy components in ING datacenters by migrating business applications to the current state of technology. ING Belgium has applications running on Legacy components like infrastructure, middleware in the Belgium datacenters. In view and motivation of legacy reduction, a Belgium Migration factory has already been set up and envisioned to assess and migrate the applications from legacy to latest ING stacks. As a part of this project, ING BE has requested Migration factory to perform migration of 30 applications which have been assessed as part of project – “Belgium LCM Migration Factory (ID: 1000049355)”.</p> <p>Project Description:</p> <p>ING BE having a plan to migrate the existing AIX 5.3 servers to the latest 6.1 version. On similar lines, it has plan to migrate Windows server from Win 2000/Win NT to Win 2003 and Sun Solaris from version 8 to version 10. While migration the OS/Hardware the project needs to comply with the ING defined Middleware (Oracle, MQ, SFTP, XCOM, XFB etc.) stack as well.</p>
Key Responsibilities	<ul style="list-style-type: none"> ➤ Support during project execution, documenting all technical & functional changes (if applicable). ➤ Resolve blocking issues. ➤ Prepare Disaster recovery plan. ➤ Preparation of Go-Live/Fallback Implementation plan. ➤ Preparation of process Cookbook to be used for all clusters. ➤ Strategic decisions for the execution of the migration. ➤ Developing various tools which can be used in the Migration Factory

	<ul style="list-style-type: none"> ➤ Approach to avoid manual intervention and repetitive tasks. ➤ Import knowledge to other team members. ➤ Adhere to Cognizant and ING Quality standards.
--	--

Project 4	GTS Investment Analysis Tool Phase
Client Name	Citi Group
Technology	Java, Flex, SQL Server 2008
Description	<p>To develop an application which will use financial data from Project Tracking System (PTS) to provide Management Information Statement (MIS) report to obtain technology investment trends at the product, program, and initiative and project level.</p> <p>The GTS business is looking to automate the planning and tracking of technology investments year over year. The application should be able to receive yearly business designated technology estimates and map estimates to current daily actual data as well as provide trend analysis against both data sets. The resulting application should enable the users to establish and view:</p> <ol style="list-style-type: none"> 1. Target budget <ul style="list-style-type: none"> Graphical representation Standard Report Format Customized Report Format 2. View trend analysis against data <ul style="list-style-type: none"> Graphical representation Standard Report Format Customized Report Format 3. Customize reports and graphs 4. View Standard reports and graphs
Key Responsibilities	<ul style="list-style-type: none"> ➤ Responsible for design of the interfaces. ➤ Developing interfaces depending upon business requirements. ➤ Performing unit testing of the developed components. ➤ Preparing shell scripts and corresponding configuration files for loading in different environments.

Project 5	NextGen Permit Construction
Client Name	Comdata
Technology	Java, J2EE, Flex, Spring framework, ibatis, Oracle
Description	<p>NGP is a web based project specifically developed to come up with an easier way to apply for heavy vehicles permit to travel interstate all over USA. Heavy vehicles need road permits to travel from one state to another and depending upon jurisdiction oriented rules and</p>

	regulations, different types of permits are issued. No application existed beforehand where from vehicle owner can apply for more than one state together as a package of permits. NGP comes into play here which aids people to order for multiple permits for different jurisdictions together and make the entire workflow of review, audit and processing of the order faster so that the permit reaches user in time.
Key Responsibilities	Responsible for developing components depending upon business requirements Performing unit testing of the developed components Managing junior team members and grooming them to get into the project Partially responsible for estimation and status report.

Project 6	IPB Front Office BAU
Client Name	JP Morgan Chase
Technology	Sybase,Crystal Reports
Description	<p>JP Morgan Chase IPB maintains a host of critical applications to support core business of Private Bank. These applications can broadly be categorized into Front Office Applications and Back Office Applications.</p> <p>The Front Office applications have been built around Apollo, Trading, JAVA and Web Based suite of applications. Applications in Apollo suite like Portfolio/ Client positions, Security positions (view grouped by securities), Credit monitoring, Client profiles, Fee calculations, Report scheduler, UPT use Sybase as backend database. The Apollo applications are primarily built with VB 6.0 and VB.NET thick clients that are deployed through CITRIX server while there are some JAVA components also.</p> <p>Actuate, a 3rd party report builder product, is used for all reporting purposes. JPMC has built a customized framework in actuate to meet all its reporting requirements.</p>
Key Responsibilities	Responsible for developing components depending upon business requirements Performing unit testing of the developed components Managing junior team members and grooming them to get into the project Partially responsible for estimation and status report.

Project 7	IPB Online Internationalization
Client Name	JP Morgan Chase
Technology	Java, JSP, Servlets, Struts, Sybase
Description	<p>IPBOnline website currently can be viewed in English language only. The objective is to add the following languages to the User Website</p>

Curriculum Vitae

	<p>part:</p> <p>-Spanish –French -Italian -German -Portuguese -English</p> <p>User would select the language after login to the website. The selected language would be stored in database and the website would be loaded with the same language from next login. User would be able to change the language any time during browsing by clicking on the language selection link at the top of the page.</p> <p>Trade advice Search functionality would be created to add date range and jasper report implementation.</p> <p>IPBOnline website currently can be viewed in English language only. The whole website functionalities can be divided into two parts.</p> <ol style="list-style-type: none"> 1. User Website 2. Administration Website <p>User Website has three types of users.</p> <ul style="list-style-type: none"> ▪ Normal User (JPMC Private Bank Clients) ▪ Managers (Support Managers, Restricted Managers and MIS Managers) ▪ Client Documentation Users
Key Responsibilities	<p>Responsible for developing components depending upon business requirements Performing unit testing of the developed components Managing junior team members and grooming them to get into the project Partially responsible for estimation and status report.</p>

Contact Details:

Address: The Gateway, Apt 715B, 210N Winston Avenue, Lubbock, TX, 79416

mail: moitrayee.c@gmail.com

Mobile: 806.620.1850

LinkedIn: <https://www.linkedin.com/in/moitrayee-chatterjee-a0ab7222/>

References:

1. Name: Rajkumar Udani
Title: Senior Director
Organization: Cognizant Technology Solutions
Relation: Supervisor
Email: RajkumarC.Udani@cognizant.com
Mobile: +91 983.021.7605
2. Name: Dr. Akbar Siami-Namin
Title: Associate professor
Organization: Texas Tech University
Relation: Advisor
Email: akbar.namin@ttu.edu
Mobile: 806.742.3527
3. Name: Dr. Rattikorn Hewett
Title: Department Chair and Professor
Organization: Texas Tech University
Relation: Professor
Email: rattikorn.hewett@ttu.edu
Mobile: 806.742.3527