**Deepak Chourasia**

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Mobile : 001-416-902-7180

Education : Masters of Computer Applications &

B. Sc. Mathematics (18+ years)

Residency : Canadian Permanent Resident (PR)

**Profile**

I have been working in IT industry since august 2004 and have extensive experience in managing/leading teams with excellent knowledge of **functional programming and object oriented programming**, **Agile and Waterfall SDLC**, NiFi, **HDFS, Spark, Scala, Python, Kafka, PIG, Hive, Sqoop, Phoenix, Squirrel, Splunk, Podium Data, Mongo DB, Postgresql, Map Reduce, Hbase, MVC, ETL using Hadoop, Springs, Core Java/J2EE, IBM IGC, Global IDs (metadata discovery), SOAP/REST, IBM websphere application server (WAS) and JBoss Application Server, WAS, REST API, Apache Camel, Maven, Cloud based openshift docker pods/servers, IBM Bluemix cloud, Solace, Oracle DB, Java Multi Threading and Unix Shell Script, Jenkins, Dynatrace.**

A proven track record of successfully managing & delivering projects to tight deadlines in Business change, Regulatory Compliance, Service Transformation and Large-Scale System Implementation areas.

Have a strong track record of project delivery in the **banking/finance** and **retail** sectors for clients such as RBC, TD Bank, American Express, BMO, Thomson Reuters, Bank of America, Reserve Bank of India and Target Corporation.

A delivery focused big data architect and lead with attention to detail, personal commitment to work, a can do attitude and a hands on approach. Builds high performance delivery teams through building relationships with the business and suppliers, team development, coaching & mentoring, encouraging competition and collective ownership for delivery. I am very good at oral and written communication.

**Experience Summary**

**Areas**

* RBC ACE IT&S Data Ingestion – Big Data Ingestion Lead

Solution Environment – HDFS, Spark, Scala, Java, NiFi, Confluent Kafka and Schema Registry, Splunk, Jenkins, Dynatrace, PCF Cloud.

* TD Bank Big Data Enterprise Architecture – Enterprise Architect

Solution environment – HDFS, Hbase, Phoenix, Sentry, Hive, Talend, Phoenix, Podium Data, Spark, Zookeeper, Kafka, Navigator, Impala, CDH 5.7, Tera data FSDM, Global IDs.

* American Express Global AR merger – Solutions Architect and Project Lead

Solution environment - Mongo DB, Spark, Kafka, PostgreSQL, Java Springs, Core Java/J2EE, SOAP, JBoss Application Server, REST API, Apache Camel, Maven, Cloud based openshift docker pods/servers, Solace, Oracle DB, Hbase and Unix Shell Script.

* Bank of Montreal Online Business Banking (OLBB) production support – Prod Support Manager

Solution environment - Springs MVC, Unix, Java and IBM WebSphere server based applications.

* Intellectual Property and Science Technology– Big Data Development Lead

Solution Environment - Cloudera's Apache CDH4 Hadoop Ecosystem, HDFS, Map Reduce, Hive, PIG, Sqoop, Hbase,clear case, Unix/Linux and mysql, .

* Bank of America Online Banking (OLB) Credit Cards – Application Development Lead

Solution Environment – Springs MVC, webservices, SOAP, IBM WebSphere Application Server 6.0, Java, Tuxedo, Tivoli JSC console. Unix and Oracle DB*.*

* Bank of America Product Offering Engine (POE) – Application Developer Solution Environment – Java, Swings, IBM Websphere Application Server, Unix and Oracle DB.
* Bank of America Legacy Bank Online Support System Retirement – Application Developer Solution Environment – IBM Websphere Customer Center, IBM Websphere Application Server and Unix.
* Reserve Bank of India Public Debt Office – Negotiated Dealing System (PDO-NDS) – Application Development, Solution Environment - TCS MasterCraft, DB2, Unix.
* Target Product Design & Development (PD&D) – Application Development and Enhancements, Solution Environment – TeamCenter Enterprise Web and Server side customization, Java MVC and Oracle DB.

**Projects**

**RBC, Toronto Canada**

**Big Data Ingestion Lead – ACE I&TS Data Ingestion (Oct 2017 – present) - Contract**

RBC Investor and Treasury Services (I&amp;TS) has developed a multi-year business transformation  
strategy, Advanced Client Engagement (ACE), that focuses on aligning our clients’ requirements  
with system enhancements designed to improve their overall experience, enhance operational  
efficiency and reduce risk. At RBC’s Investment and Treasury Services a new project called “ACE”, the Advanced Client Experience, is working on a major transformation of how we give our clients access to their data. This projects involves heavy development in **Scala, Spark and Java.** ACE system is built on top of **Hortonwork’s data platform (HDP) and PCF Cloud.**

* Responsible for planning strategies for various data ingestion requirements and finding suitable solutions for the same.
* Responsible for designing the architecture of ACE data ingestion platform.
* Prepared detailed blue prints and architectural diagram for ACE data ingestion platform.
* Setting best practices guidelines. See and fix the blockers before they become blockers.
* Using **NiFi 1.4**, **Scala 11.8**, **Spark 2.2**, **Java 8**, **Scoop**, **Hive 1.2**, **Python**, **Confluent** **Kafka 0.11,** Kotlin**, Avro 1.8.2,** Active MQ and Confluent Schema Registry for data ingestion.
* Developed application test cases and application build script in Python.
* Using Eclipse, Intellij 17.3, Maven and SBT for code build. GIT is used for version controlling.
* Using object oriented paradigm and functional programming for developing solutions.
* Solution is staged in Linux and HDFS environments.
* Using Splunk queries to generate various reports/dashboards which are looked upon by the business team every day.
* Implementing DaaS (Data as a Service) platform on Bluemix cloud to host data consumption micro services.
* Using MongoDB for data storage as part of lambda architecture developed on Kafka and Spark. Daily batch data is stored in HDFS using spark batch jobs.
* Using ERWin for data modeling.
* Mentoring team members to achieve the best results considering the delivery deadline.
* Working with Various stakeholders to achieve their goals.
* Deployed application on PCF cloud.

**TD Bank, Toronto Canada**

**Big Data Architect - Big Data Enterprise Architecture** **(June 2017 – Aug 2017)**

TD bank has created a data lake based on various big data technologies for future use cases. Investment is huge where all type of financial data is ingested in the data lake which will be used by future systems for various usage. Currently sole usage of this data is done for analytics and machine learning.

* Worked closely with team of 17 members for metadata discovery and classification project.
* Worked with various lines of business and vendors teams for enabling data ingestion and extraction into Hadoop data lake.
* Designed architectural patterns for data ingestion and extraction for enterprise level data lake.
* Provided solutions to various big data in house applications using HDFS, Hbase, Phoenix, Sentry, Hive, Talend, Podium Data, Spark, Zookeeper, Kafka, Cloudera Navigator, Cloudera Impala, CDH 5.7, Teradata FSDM, Global IDs, IBM IGC and IBM Information Analyzer.
* Work with various project teams to standardize the data ingestion, transformation and extractions.
* Created lambda architecture patterns using Scala, Spark streaming, Kafka, HDFS, Hive, Phoenix and HBase.
* Created big data architectural design patterns for metadata ingestion, provisioning, profiling, discovery and classification using, Podium Data, Global IDs, IBM IGC (Information Governance Catalog) and Information Analyzer.
* Performed architectural designed and setup the infrastructure for the design and development.
* Worked with the infrastructure teamto stabilize connectivity for underlying architecture.
* Provided alignment to existing big data projects for newly developed design patterns and ran PoCs with the development team.
* Working knowledge of SCM tools like GIT and SVN.
* Working knowledge of Hadoop data lake architecture and design, data architecture principles, data requirements gathering, data modelling and database design.
* Worked on Data Management solutions, including Metadata Management, Data Lineage, Data Security and Data Quality Solutions.
* Created physical and logical data models also performed reverse and forward engineering using ERWin.
* Used object oriented and functional programming for developing the solutions.

**American Express, Toronto Canada**

**Solutions Architect and Project Lead - American Express Global AR Merger** **(Dec 2015 – May 2017)**

American Express Global AR merger is an initiative to merge US and international markets which deals in the merger of various credit card applications. Platform is written and devolved on Java and Big data technologies. Project follows agile methodology for SDLC.

* Led/managed team of 8 members for driving the solutions using agile framework.
* Worked with the team distributed at offshore and onshore.
* Designed the architecture of the merged application based on java platform application stacks, which include Java Springs, Java Multithreading, Solace MQ, Apache Camel, Mongo DB, Junit, Postgres and Oracle db, Radis in-memory cache, micro services, **Mongo DB** and **Hbase**/**HDFS**.
* Developed, deployed and tested Java framework based micro services on docker based Cloud pods, using various java technology frameworks.
* Optimized Postgres, Oracle and Mongo DB queries for better throughput.
* Followed a test driven development approach.
* Created architectural blueprints for the projects worked on.
* Performed architectural designed and setup the infrastructure for the design and development.
* Worked with the infrastructure teamto stabilize connectivity for underlying architecture.
* Led development team in onshore and offshore model.
* Implemented multithreaded solutions using java 7 executor framework for faster processing.
* Working knowledge of SCM tools GIT and SVN.
* Developed an ingestion framework for ingesting mainframe data to HBase using Kafka and Spark Streaming.
* Created physical and logical data models also performed reverse and forward engineering using ERWin.
* Installed solutions on American Express in-house cloud, which is an openshift distribution.
* Used object oriented and functional programming for developing the solutions.

**Bank of Montreal, Toronto Canada**

**Prod Support Manager - BMO Online Business Banking (Jun 2014 – Dec 2015)**

BMO has been developing OLBB portal which consolidates all the legacy business applications in one portal where all US and Canada business customers can do their banking under the same portal. Development also involves development of new functionalities. OLBB portal application stack involves multiples applications i.e. ATSS, CUA, Homepage, Wires, RSA, DLU (Direct Link US) and DLC (Direct Link Canada).

* Managed a team of 18 members distributed at onshore and offshore.
* Gathered requirements for new change requests (CRs) which came as a part of BAU activities.
* Analyzed the new CRs and defect fixes in detail and prepared design approach, development approach and production implementation approach. This process takes multiple reviews and approvals from the different stake holders in the bank.
* Prepared impact analysis reports for the different production changes and defect fixes.
* Implemented the industry standards during the design, coding and testing of the changes and fixes aka developed loosely coupled, scalable, reusable and cohesive components as a part of production changes and enhancements.
* Developed code and pseudo codes for helping offshore team members.
* Created several artefacts to document and stream line the production support processes which helped entire team to develop solutions effectively.
* Implemented multithreaded solutions using java 7 executor framework for faster processing.
* Reviewed the artefacts developed by the offshore team and guided them for developing the quality artefacts/deliverables.
* Delegated work items to the offshore team in India and worked with the team to develop the solution with a pragmatic approach.
* Prepared and shared daily status report with the customer.
* Tested the developed code in Dev and CIT environments.
* Sought various approvals from the business for implementing the production changes within the SLA
* Used OOM for development and database creation.
* Used ERWin for data modeling in oracle.

**Thomson Reuters India, Bangalore, India**

**Big Data Development Lead – Intellectual Property and Science Technology (Dec 2012 – May 2014)**

**Intellectual Property and Science Technology** provides comprehensive intellectual property (IP) and scientific information that enables various governments, academia, publishers, corporations and law firms to discover information about several innovations which are made available to the affiliates in the form of scientific papers. Thompson Reuters collects data from many vendors who want their data to be processed and made available to their affiliates in a structured format.

Datasets are processed using Sqoop, PIG, Hive and MapReduce and are finally loaded to the web based applications Incites2.0 and WebOfScience which are the master repository for the papers. Incites2.0 deals in the innovations which were done in last decade and WebOfScience provides information about all innovations in the past which have been recorded by the respective organizations.

Technologies: HDFS, Cloudera CDH4 framework for hadoop, Map Reduce, PIG, Hive, Sqoop, Oozie and Java based UDFs, mysql, Maven and Unix/Linux.

Responsibilities:

* Managed a team of 6 members and worked with various teams to develop successful big data solutions.
* Involved in the complete life cycle of Custom Dataset generation which is a report for the researchers, universities and publishers. This involves understanding requirements, creating design document, developing PIG scripts, Hive queries and testing.
* Optimized queries for better throughput.
* Designed and populated hive tables in HDFS for the research articles.
* Lead a team of 6 members for helping Thomson Rueters India and helped in ramping up the team.
* Worked with the infrastructure teamto configure the HDFS distributed clusters, PIG and Hive.
* Used Oozie to orchestrate the map reduce jobs that extract the data on a timely manner.
* Developed Map Reduce jobs in Java for data formatting and custom input format inclusion.
* Used ERWin for data modeling.
* Developed **Hive User Defined Functions** in java, compiled them into jars and added them to the HDFS for executing them with Hive Queries.

**Bank of America, Charlotte NC USA**

**Development Lead – Shared Services Platform Initiative (Jan 2009 – Nov 2012)**

Development Lead for Bank of America online banking credit cards. Project deals in the merger of MBNA legacy credit card application into new Bank of America online banking portal. Applications were migrated to the SOA based BoA proprietary Borneo platform which orchestrated communication between multiple Credit card, Retail, Investment, Loan and Vendor applications which were used by Band of America’s BAU Credit Card customers.

Technologies: Springs MVC, webservices, SOAP, IBM WebSphere Application Server 6.0, Java, Tuxedo, Tivoli JSC console. Unix and Oracle DB.

Responsibilities:

* Managed a team of 16 members which was distributed at onshore, offshore and nearshore.
* Gathered requirements for new the merger of the MBNA credit card Netaccess applications (Canada and US) in the BoA OLB Borneo portal.
* Prepared design approach, development approach and production implementation approach. This process takes multiple reviews and approvals from the different stake holders in the Bank of America.
* Developed code using Rational Application Developer and followed the bank standards for coding. Also developed pseudo code for helping offshore team members.
* Used SOAP for communicating with other systems in Bank of America.
* Used TCS Accent tool for modeling of the new services.
* Reviewed the artefacts developed by the offshore team and guided them for developing the quality artefacts/deliverables.
* Used ANT scripts for compilation and build of the deliverables ear files.
* Used clear case for version control of the code.
* Delegated work items to the offshore team in India and worked with the team to develop the solution with a pragmatic approach.
* Prepared and shared daily status report with customer on the work items for transparency.
* Tested the developed code in Dev and CIT environments.
* Validated and summarized the production changes after the production implementation. Kept the business informed during the various stages of the production deployment and implementation.

**Bank of America, Newark Delaware USA**

**Production Support Lead – Product Offering Engine (POE) for Credit Cards – production l3 support (Dec 2007 –Dec 2008)**

Product offering engine for credit cards, deals in the creation of the actual credit card product and how the actual credit card numbers are generated and sold to the customers. This involved a generation of MBNA bases credit card numbers which also had affiliations with Visa, Master Card and American Express.

Technologies: Java Swings, SOAP, IBM WebSphere Application Server 6.0, Core Java, Oracle DB and DB2.

Responsibilities:

* Managed a team of 7 members distributed at onshore and offshore.
* Gathered requirements for new change requests (CRs) which came as a part of BAU activities and regulatory changes in the credit card area.
* Analyzed the new CRs in detail and prepared design approach, development approach and production implementation approach. This process takes multiple reviews and approvals from the different stake holders in the Bank of America.
* Prepared causal analysis reports for the different production changes and defect fixes.
* Implemented the industry standards during the design, coding and testing of the changes and fixes aka developed loosely coupled, scalable, reusable and cohesive components as a part of production changes and enhancements.
* Developed code using Rational Application Developer and followed the bank standards for coding. Also developed pseudo code and stubs for helping offshore team members.
* Created several artefacts to document and stream line the production support processes which helped entire team to develop solution effectively.
* Reviewed the artefacts developed by the offshore team and guided them for developing the quality artefacts/deliverables.
* Delegated work items to the offshore team in India and worked with the team to develop the solution with a pragmatic approach.
* Prepared and shared daily status report with customer on the work items for transparency.
* Tested the developed code in Dev, CIT and SIT environments.
* Sought various approvals from the business for implementing the production changes within the SLA duration.
* Validated and summarized the production changes after the production implementation. Kept the business informed during the various stages of the production deployment and implementation.

**Bank of America, Charlotte NC USA**

**Module Lead – Bank Online Support System Retirement-BOSS (Apr 2007 – Nov 2007)**

Bank Online Support System retirement was an initiative by the Bank of America where Bank wanted to retire the legacy system with Websphere Customer Center to improve the performance and reduce the dependency on a single legacy system. WCC is an MDM system.

Technologies: IBM WCC, Core Java, J2EE, z/OS, Websphere application server 6.0, TSO and Unix.

Responsibilities:

* Prepared strategies to migrate the existing BOSS functions/APIs on to the WCC platform.
* Developed code using WCC extensions.
* Designed WCC database structure to map the relevant tables from the BOSS legacy system.
* Implemented the industry standards during the design, coding and testing phases of the conversion aka developed loosely coupled, and scalable, reusable and cohesive components.
* Developed code/APIs using Rational Application Developer 7 and followed the bank standards for coding. Also developed pseudo code and stubs for helping offshore team members.
* Analyzed the existing APIs and created several artefacts related to conversion of the APIs.
* Delegated work items to the offshore team in India and worked with the team to develop the solution with a pragmatic approach.
* Prepared and shared daily status report with customer on the work items for transparency.
* Tested the developed code in Dev, CIT and SIT environments.
* Created the database migration scripts for uploading the data to the target system (WCC database).

**Target Corporation, Mumbai India**

**Senior Developer - Target Product Design and Development (PD&D) (Dec 2005 – Mar 2007)**

Target PD&D project deals in the development lifecycle of the products (garments, furniture etc.) that the Target Corporation gets manufactured from third party vendors. By using the **PLM** tool TeamCenter Enterprise server and the TeamCenter Enterprise web client, Target Corporation sends the product designs and samples to the manufacturers at the remote site for their review and order processing. Reverse communication also happens in case of any changes proposed by the vendor in the design. By using TCE server and web client we can search, create, query, update and remove the product and assets.

Technologies: TeamCenter Enterprise web client (java MVC based product), TeamCenter Enterprise middleware server (C based middleware server for ORM), Oracle DB and Tomcat server.

Responsibilities:

* Designed the high level workflow and low level component design for the whole lifecycle of a product.
* Created unique artefacts for various products and the workflow/lifecycle of a product.
* Created method models and stubs using the TeamCenter Enterprise server side modelling functionality.
* Customized out of the box TeamCenter Web Client and Server side widgets/components for achieving the aspired development of the project for the Target Corporation USA.
* Developed Java based APIs and functions according the requirements. Followed industry standard for the development activities.
* Performed the review and cross review of the developed code across the PLM practice which includes many similar projects in retail PLM area.
* Created well defined test cases and executed them in Dev and CIT environments. Also supported the testing team during the execution of the test cases in the SIT and UAT cycle.

**Reserve Bank of India, Mumbai India**

**Developer – RBI PDO-NDS (Aug 2004 – Nov 2005)**

PDO stands for Public Debt Office and NDS stands for Negotiated Dealing System.This is a portal for RBI Customers and RBI PDO-NDS users, allows them to transfer RBI securities (Bonds, GPN, SC, BLA) from PDO to PDO, PDO to Banks and vice-versa. And allows users to redeem, put stoppage and maintain data for physical securities and DMAT securities and receive interest on the basis of the nomenclature taken by them. PDO-NDS is connected through RTGS (Real Time Gross System) which is bridge between PDO-NDS and the outside market.

Technologies: TCS MasterCraft, Unix, Shell Scripts, TSO, DB2.

Responsibilities:

* Created the code model according to the design documents supplied.
* Worked with the customer for understanding new requirements.
* Analyzed the new requirements for database model changes which were made as a part of system maintenance.
* Analyzed and rectified the existing bugs and error in existing system.
* Development of new components and functionalities as a part of enhancement of the existing application.
* Supported the production defects during the warranty period which included on call attendance at client location and defect resolutions within the defined SLA.