**Arun Kumar Sharma**

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**Professional Summary**:

* 11+ years of professional IT experience in programming, designing and application support of Enterprise Applications on Unix and windows platform which includes experience in Big Data ecosystem.
* Good working experience in the business sector of Telecommunications, banking and Financial electronic payment solution domain.
* Worked in C/C++, Java, Unix, SQL, No-SQL, Shell scripting-based applications and well versed with RDBMS like MS-SQL server, Oracle, MariaDB, MongoDB, Cassandra, and OS concepts.
* Good experience in Big Data ecosystem components like Hadoop MapReduce HDFS HBase Hive Sqoop Pig Zookeeper and Flume.
* Good Knowledge on Hadoop Cluster architecture and monitoring the cluster.
* Experience in importing and exporting data using Sqoop from HDFS to Relational Database Systems and vice-versa
* Good Experience on SPARK and basic understanding of Cloud (AWS) and microservices technologies.
* Experience in managing Hadoop clusters using Ambari Horton works.
* Experience of working with different application monitoring tools such as Introscope, Control-M, HFrunmonitor, Splunk.
* Involved in all phases of Software Development Life Cycle including design, data modeling, software implementation, testing, support and Maintenance.
* Worked on projects using different configuration management as PBN (Project by Net), StarTeam, GIT, SVN and Ticket tracking system such as Jira, Bugzilla and Putty, AOTS BMC Remedy for Application support.
* Experience in User/Customer interactions, requirements gathering from business users, design, development of banking and credit applications and products.
* An effective communicator with excellent client relationship and management skills.
* Have experience working in SCRUM-AJILE methodology in projects.
* Have Worked in Onsite-Offshore model.
* Experience working in the ITIL Process: Incident Management, Problem Management, Change Management, Event Management, SLA and Release & Configuration Management.

**Education**:

* Master of Computer Applications from Pune University, Maharashtra, India.

**Technical Skills**:

* **Operating Systems**: Windows (95/98/XP), Unix, Linux
* **Scripts**: Shell scripting, Html, XML, Java script, python,
* **Languages**: C, C++, STL, Java, J2EE, SQL
* **Databases**: Oracle 9i, MS Access, MySQL, titan, MongoDB, Cassandra, titan
* **Middleware**: MQ series, Connect Direct, Kafka
* **Tools & Utilities**: MS Visual Studio 6.0, GCC, g++, gdb, UML, CVS, Jira, Eclipse, StarTeam BMC Remedy- AOTS-TM and CM, Toad, Putty, Wily Introscope Agent, ALDB, Patrol, One Tool, Netcool, ESET, Apache Webserver, IBM WebSphere Application Server 6.0, Introscope, Jenkins
* **Web Related**: XML, Web Services
* **Big Data Ecosystem**: HDFS HBase Hadoop MapReduce Zookeeper Hive Pig Sqoop Flume Oozie Cassandra Spark

**Professional Experience**:

**Client : AT&T, Dallas, TX Jun 2016 – Till Date**

**Project : DPLR Global IDS and Invenio**

**Role : Big Data / Hadoop Consultant**

**Project Description**: Sourcing of data from DPLR global IDs is a data profiling tool that collects metadata by profiling application databases to the gold partition of the core data lake environment. From there, the data is available for analytics and data mining. Invenio provides visibility into Big Data metadata and data feeds. Interfaces through the DPLR API to access metadata regarding the data in the data lake. Allows users to create and subscribe to Data Router feeds. Subscribe and publish topics.

There are three (3) major components to the Invenio application; the Invenio web application, the DPLR API, and the Enterprise Metadata Repository (EMR). These three components combined together provide a single solution to load, search and present metadata about a variety of data assets

**Responsibilities**:

* Refine metadata movement using shell script.
* Running DPLR GID profiling jobs against data sources within AT&T family to understand monetization or rationalization targets.
* Adding, deleting and maintaining subscription for different feeds.
* Running the extraction and publishing of files to Data Router.
* Developing Scripts and Batch Job to schedule various Hadoop Programs.
* Written Hive queries for data analysis to meet the business requirements.
* Creating Hive tables and working on them using Hive QL.
* Involved in installing Hadoop Ecosystem components.
* Shared responsibility for administration of Hadoop, Hive and Pig.
* Involved in initial data loads and delta loads using SQL scripts.
* Shell scripts for Profiling - Collects information about database schemas, tables and columns
* Worked on Java based & Map Reduce programs to parse the raw data, populate staging tables and store the refined data in partitioned tables in the EDW.
* Created HBase tables to load large sets of structured, semi-structured and unstructured data coming from UNIX, NoSQL and a variety of portfolios.
* Involved in installing updates, patches and upgrades.
* Monitoring data loads in application using Introscope and Splunk.
* Part of the team which is transitioning existing complex infrastructure to AWS cloud.
* Loading data from different RDBMS to Hadoop using Sqoop.
* Assisted in performance of Gap Analysis related to Data Models and data extracted in ETL’s and map it to Hadoop HDFS.
* Worked in implementing Big Data pipelines using Sqoop, flume, Java, Mongodb, Cassandra.
* Created UDFs in Java to customize the data in pig.
* Worked on data pipeline using Spark/Kafka and data analytics using Spark SQL and Python.
* Extracted and transform the data sets and resultant dataset were loaded to Cassandra.
* **Environment: Hadoop, Hive, Sqoop, Yarn, Pig, Unix, Shell Scripts, Spark, Python, SparkSQL, Dataframe, SQL, Java, JSON, NOSQL, Python, Oracle, MariaDB, MongoDB, Cassandra, Hortonworks, Splunk, Kafka, Linux, Introscope, Kabana, Elastic Search, Jenkins, Tomcat, JBoss, AWS, Titan, Graphdb, Groovy.**

**Client : AT&T, St Louis, MO Jun 2015 – Jun 2016**

**Project : Oasis**

**Role : Big Data / Hadoop Engineer**

**Project Description**: Application information tracking tool is a web application to keep track of all the information and monitoring applications for the configured client devices and servers for AT&T. The main motto of this application is to provide one window to access to files, monitoring the various applications, status of different tools and servers. It also takes care of different reports and alert list.

**Responsibilities**:

* User requirement Analysis, Design, Development, Testing and Documentation
* Analyzing the business requests with client and impact analysis.
* Reviewing, Designing and incorporating the business changes.
* Document as-is state of environment, gap analysis, come up with options, recommendations
* Resolution of user issues and bug fixing.
* Maintenance of automated tooling code.
* Participated in server migration on AT&T cloud.
* Involved in designing of dashboard of AIC (AT&T Integrated Cloud) and coordinating with different stakeholders.
* Was Involved in upgrading MongoDB(NoSQL) to latest version.
* Loading logs and event data to Hadoop using Flume and Sqoop.
* Log analysis using Hadoop.
* Creating dashboards, reports data through tools HFRun & Introscope.
* Involved in alerting and automation of daemon process through EDART setup.
* Helping the different teams for tools deployments and installation in Test and production machines.
* Keep all stakeholders informed of project status and Tooling status.
* Participated in meetings with different business groups to identify solutions and risks.
* **Environment: Linux, Unix Shell script, Perl, Java, JSON, REST, NoSQL, python, Oracle, Mongo DB, GIT, SVN, Jira, Bugzilla, Introscope, Hfrunmonitor, Splunk, Hibernate, Hadoop, Hive, PIG, HBASE,**

**Client : AT&T, NJ Jul 2010 – May 2015**

**Project : TB-PAS-Apache A**

**Role : Technical Analyst**

**Project Description**: Supporting and maintaining different set of billing applications (CADM, CCMS, EUAM, BGW) ranging from customer ordering, customer number management system and account receivable, billing and financial modules. These applications take billing feeds from UB, crunches data and provides AT&T with different reports and alert lists. The key goal is to make sure that AT&T does not lose the revenue stream from enterprise.

**Responsibilities**:

* User requirement Analysis, Development, Testing and Documentation
* Analyzing the business requests with client and doing impact analysis.
* Reviewing, Designing and incorporating the business changes.
* Troubleshoot and resolved application issues escalated by users.
* Worked on all major enhancements, bug fixing and major releases.
* Responsible for implementing all assigned Change Requests.
* Participating in application recovery efforts for outages.
* Test deployments and Patch installation in Test, UAT and production machines.
* Involved in Production Application support in Unix.
* Documented project details, technical specifications and troubleshoot guide
* Responsible for handling meetings with different teams to identify new change requests and Releases.
* Participated in meetings with different business groups to identify solutions and risks.
* Carrying out the Deployments & Sanity testing of the applications on every new release.
* **Environment: Linux, Unix Shell script, Solaris, C/C++, Java, Oracle, BMC Remedy, Introscope**

**Client : AT&T, NJ Oct 2008 – Jan 2010**

**Project : JDE One world**

**Role : C / C++ Programmer / Analyst**

**Project Description**: An Account receivable and financial applications that gathers and applies bill payments, credits, adjustments and collection activity for billing, provides daily transactions activity to Tailored Journals and produces the month end A/R input for the BES Biller to use for the creation of monthly customer bills.

**Responsibilities**:

* User requirement Analysis, Design, Development, Testing and Documentation.
* Finalization of the Project Scope Document and Deliverables.
* Performing the maintenance, upgrades and troubleshooting for technical issues.
* Monitoring the overall progress and weekly reporting to Executive Steering Committee.
* Part of team to upgrade from JD Edwards World System to JD Edwards Enterprise one 8.12/8.98.3 with creating new Applications, Reports & Business Functions.
* Managing and supporting with production support and new developments
* Weekly reviews and tracking the monthly SLAs etc.
* Train & Support IT Staff on issues related to optimal techniques of JDE World Software.
* Provide user training and support to of proper use of financial applications.
* Troubleshoot & resolve application related glitches.
* Document program changes and process flows.
* Tracking financial reports and presenting the data to financial teams.
* **Environment: JDEdwards, Citrix server, Linux, Unix Shell script, Solaris, C/C++/Java, Oracle, BMC Remedy, Introscope**

**Client : Motorola, CO May 2008 – Sep 2008**

**Project : Premier Computer Aided Dispatch System**

**Role : Backend C++ Programmer**

**Project Description**: Premier Computer Aided Dispatch system (PCAD) is a 911 computerized Dispatch system. PREMIER CAD is used by a communications center to track available resources, information, and hazards, and to dispatch emergency personnel. This System allows call takers and dispatchers to quickly and efficiently handle incident information, by providing fastest possible emergency response during THEFT, FIRE or MEDICAL Assistance. PCAD system is categorized into 3 parts Provisioning, Commands, And Interfaces. It can be integrated with other Interfaces. PREMIER CAD uses a client/server-type architecture. When you use PREMIER CAD, the information you enter at your computer (also known as the client) is sent to a server which stores the information and keeps it organized. That server is 99.995% fault tolerant, which means that you have a 99.995% chance of the information on the server being available and correct at all times. The server can also store much more information than your computer.

**Responsibilities**:

* Developed Served Side C++ Code for implementing various Commands.
* Used embedded SQL for connecting with the Non-Stop SQL-MX database.
* Worked with Stored Procedures, Functions, Cursors and Triggers on Server Side.
* Used STL and MULTITHREADING in application.
* Extensive Usage of XML to Transfer Data between Client and Server.
* Helped in refactoring the client framework through encapsulation and inheritance.
* Developed Client-side modules using OOPS principles.
* Followed Agile Methodology towards Software development.
* Wrote queries to get data from database.
* Involved in testing and monitoring of queries.
* Written Test Cases in QTP for Automation testing and Manual Testing.
* Involved in the Regression testing of the Application.
* **Environment: C++, STL, Embedded SQL, C#, XML, HP Non-Stop SQL(SQL/MX), Visual Studio 5.0, Mercury Quality Centre, HP-UX, Tandem**

**Client : Sprint-Nextel, KS Jun 2007 – Apr 2008**

**Project : Affiliate Settlement and Management Reporting**

**Role : C / C++ Consultant**

**Project Description**: This project (XOS) is UBP (universal billing platform) migrations where all affiliate settlements have to be ported from P2K to Ensemble (Amdocs billing system). This migration involves bringing in approximately 60 million customers from the P2K old billing system. In XOS we captured all Prepaid and post-paid Usage activity of subscribers traveling in Affiliate CSA's at the Call detail level for the purposes of settlements. Data is received from the Amdocs system and from the different Data warehouse source systems in the form of input Usage files. Dfile library is developed to read/write the date from Input files in formats like fixed length, variable length and delimiter format. New processes were developed to process data from new source systems and to produce the 'simplified' reports (Adjustments report, 2G & 3G subscription travel usage reports, Cash report) for Affiliate Settlements.

**Responsibilities**:

* Developed shell programs and configuration files in UNIX to handle the business logic.
* Involved in the enhancement of Dfile library functions using C/C++.
* Worked with Pro\*C programs for handling the subscriber’s information.
* Used SED/AWK in various shell scripts.
* Worked with stored procedures, functions, cursors to get data and to handle the business logic.
* Involved in Processing and monitoring of various jobs in UNIX.
* Involved in testing and monitoring of queries for TERADATA.
* Wrote queries to get data from Oracle database.
* Involved in the analysis of Data Mapping between the existing source system (P2K) and new source systems.
* Created Shell scripts for handling the data process in new systems to generate various reports.
* Involved in analysis, designing, coding and unit testing of the application.
* **Environment: C/C++, Pro\*C, SQL, Oracle 9i, Sun Solaris, AIX**

**Client : Philippine National Bank / Western Union May 2005 – Jan 2007**

**Project : D2B Money link**

**Role : Backend Software Engineer**

**Project Description**: Western Union is a global leader in money transfer and message services. Money link helps consumers and businesses securely transfer money and make payments using money order and other electronic systems. This application provides a facility to transfer money across the world via network agents. There was no banking option in money link for the Southeast Asian country such as Philippines to do transaction through banking option. Philippine National bank wanted to have that facility in western union. The project is based on client server architecture. This is used to handle the user requests and to communicate to the server through message-oriented requests.

**Responsibilities**:

* Successfully implemented the direct to bank (D2B) facility to coordinate with National Banks.
* Involved in implementing the automation of adjustment request and reinstate process.
* Successfully implemented the OFAC Enhancements using C++.
* Have excellent interactions with Client, Business Analyst, Development and Testing teams.
* Involved in design and development of the Enhancements requested by the client.
* Involved in fixing the tracker defects and bugs found in the application using C++/Java.
* Involved in unit testing and integration testing of the developed module.
* Wrote Unit test cases for testing.
* Used StarTeam as a configuration management tool for managing the module developments.
* Used Project management tool Jira for managing the project.
* Involved in maintaining the quality processes in the project.
* **Environment: C/C++, COM, MS Visual Studio 6.0, StarTeam, Jira, Borland C++ Compiler5.02, Java, TDB (debugger)**

**Client : NCR Australia Aug 2004 – May 2005**

**Project : Electronic Payment Solution (Credit Card)**

**Role : Software Engineer**

**Project Description**: National Cash Register (NCR) is a worldwide leader in Self Service solutions. NCR Electronic Payment Solution provides the Financial Industry with a solution that is adapted specifically for central and commercial banks. This project was developed for three petroleum companies, Shell, Caltex and Chevron. The scope was that the user will swipe credit/debit card and enter the fuel amount and after the card is authenticated, fuelling would start. The fuelling is controlled by the application itself. This application is ISO8583 and AS2805 messaging standard compliant.

**Responsibilities**:

* Successfully implemented the settlement process in Multithreaded application.
* Involved in application development using C++ to handle the financial transactions.
* Developing libraries in C, which were used for interaction with Pin Pad, connected to the machine.
* Involved in unit testing and integration testing of the project.
* Involved in writing the various test cases.
* Involved in writing the batch files to build the application.
* **Environment: C/C++, COM, MS Visual Studio 6.0, StarTeam, Jira**