**Ramkumar Subramanian**

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Profile Summary

* 3+ years of progressive experience in Management Consulting / Application Development & Maintenance / **Hadoop / Map-Reduce / Pig / Hive / CoreJava** / Production Support.
* Solid understanding of HDFS, Map-Reduce framework and Hadoop ecosystem.
* 9 Months of experience in developing application on Map-Reduce programming Model of Hadoop in Java.
* Good exposure on Query Programming Model of Hadoop such as Pig and Hive.
* Exposure on Distributed databases like HBase, MongoDB and Cassandra.
* Agility to learn new technologies and business changes to adapt to fast pace environment.
* Very Strong Knowledge in understanding the client’s business and providing consulting to end users.
* Good in Client handling, business etiquette, and ethics as worked in production environment.
* Good exposure in following all the process in a production environment like change management, incident management and managing escalations.
* Strongly believe on working smart rather than working hard.
* Consistent high performance, Self-Motivated and Quick learner.

Employment

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| CGI Information Systems & Management Consultants Private Limited. | Jan 2010 - Present |

Technical Skills

* Languages : Core Java, SQL, COBOL, JCL
* File System : HDFS, VSAM
* Framework : Hadoop, Map-Reduce
* Hadoop Ecosystem : Hive, Pig, HBase.
* Database Knowledge : DB2
* OLAP : Business Objects

Academic Credentials

B.E., (ECE) K.L.N.College of Engineering, Anna University 69.58% 2009

HSC Tagore Vidyalayam Matric Hr. Sec. School 77.66% 2005

SSLC Tagore Vidyalayam Matric Hr. Sec. School 82.72% 2003

Achievements

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| **Award Name** | **Purpose** | **Organization** | **Date** |
| TGMC Winner | District Collector Office Information Integration | IBM Academic Initiative | 2008 |

Project Details

## Currently working on PoC for Smart Grids, where smart electric meters emits data continuously, analyzing the possibility of time based billing, prepaid usage, displaying the billing and account details in the LED display of smart meters.

## Project 1: Data Mining on Wikipedia Dataset using Map-Reduce

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| **Description** | This project helped in the understanding of the Map-Reduce execution framework in large datasets. It took around 3 minutes when it ran without any performance tuning. Later, the Map-Reduce job is tuned for performance using various parameters such as block size, sort factor, and by introducing combiner in the intermediate output in Map side. The same job took just around 1.5 minutes to complete after the performance tuning. |
| **Duration** | 1 month |
| **Hadoop Cluster size** | 5 |
| **Hadoop Version** | 1.0.3 |
| **DataSet size** | 1GB |
| **Operating system** | Red Hat Enterprise Linux 5 |
| **Contribution** | * Installation and configuration of Hadoop Cluster. * Preparation of the use case best suited for understanding the job execution and performance tuning parameters. * Tuning the performance wherever possible and studying the effects of all the configuration parameters. |
| **Technology Skills** | HDFS, Map-Reduce framework, CoreJava. |

## Project 2: K-means Clustering using Map-Reduce

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| **Description** | The main intention of this project is to explore the cascading of Map-Reduce jobs. Selected K-means clustering as use case as it is highly computation intensive and iterative in nature.  A sample dataset is generated with random 2 dimensional points, and the initial centers are taken as the quartiles of the data. |
| **Duration** | 1 month |
| **Hadoop cluster size** | 5 |
| **Technology Skills** | HDFS, Map-Reduce frameworks, CoreJava. |
| **No of Iterations** | 10 |
| **Average time taken to execute** | 5 minute, 19 seconds. |

## Project 3: Enterprise Application Maintenance & Support – Bell Canada enterprises

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| **Description** | ARICS is an **A**ccounts **R**eceivable and **C**ollection **S**ystem used by thousands of Bell Canada Customer care representatives. It is one of the mission critical application without which the customer care representatives will not be able to view or update any customer informations.  NSB is a **N**ational **S**ummary **B**illing application where it produces a summarized billing for a customer for all its telecom related stuff across the country and across all the Telcos. All the customers billed in this application are business customers like Air Canada, Bank of Montreal, and hence any downtime in this application will result in huge revenue impact for the client. It is one of the complex transaction processing systems as it deals with summarizing the billed details from all the Telcos.  E911 is one of the mission critical application from which the address details are sent to the police department when someone dials 911 emergency service. All telecom service providers are responsible to provide address details to police department when someone dials 911 from their landline, E911 application takes care of this task for Bell. Address updation and deletion happens as and when the customer relocates. |
| **Client** | Bell Canada |
| **Duration** | 2 Years 4 Months |
| **Team size** | 8 |
| **Contribution** | * Understanding the Clients Business and providing consulting to Business users. * Providing quick fix to the job failures and ensuring the batch jobs will complete on time and the onlines will be available to the clients. * Performing root cause analysis for critical and re-occuring issues and fixing them permanently. * Ensuring the high availability of the applications at all the time. * Understanding the Data flow between other upstream and downstream applications and their functionalities. * Providing Implementation and Post Implementation Support for new modifications. |
| **Technology Skills** | COBOL, JCL, DB2, VSAM, CICS, SAS |

Personal Details

Name : Ramkumar Subramanian

Date of Birth : 5th July 1987

Gender : Male

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Near Mosque Road, Frazer Town, Bangalore – 560005.

Date :

Place : Bangalore Ramkumar Subramanian