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Summary

- Software Developer and an enthusiast data scientist motivated to create something useful.
- 9+ years of IT experience in back-end software development.
- Explorer by approach, likes to experiment, learn and progress.

Technical Skills

Industry Experience	:Commercial credit card processing, Accounts Payable processing.
Technologies	:Java, Unix shell scripting, Python, XML, HTML, C, SOAP web services, IBM Web sphere
Operating Systems	:Sun-Solaris-UNIX, IBM AIX-Unix
Tools	:IBM RAD, IBM Rational Clear Quest, IBM Rational Build Forge
Version Control	:IBM Clear Case, Git
RDBMS	:IBM DB2 8.0, SQL, no SQL Alternatives
Analytics Toolkit	:Scientific Python(w Numpy, SciPy, Pandas), IPython, R, Hadoop, Pig, Amazon Web Services, Octave

Education

Bachelor of Technology - Computer Science Engineering, 2005
National Institute Of Technology (NIT), Hamirpur, INDIA.

MOOCs

Machine Learning by Stanford University certificate
Data Science by Washington University certificate
The Analytics Edge by MIT University certificate
Mining of Massive Data Sets by Stanford University certificate
Computational Investment (with distinction) by Georgia Tech University certificate
Data Science by Harvard University no certificate

Employment Detail Summary

July 2011 - Present	RS Software Asia, Singapore	Software Developer Team Lead
Apr 2009 - Jun 2011	CSC, Foster City, USA	Software Developer & Production Support Lead
Dec 2006 - Apr 2009	CSC, Bangalore, India	Software Developer
Jun 2005 - Jun 2006	Avake Technology, Noida, India	Software Developer

Data Science Experience Highlights

1. Ranked 275 out of approx 1700 teams for a Kaggle competion to predict happiness by using informal polling questions.

2. Analyzed properties of a 0.5TB graph using Pig/Hadoop on Amazon web-based cloud services

   a. An RDF dataset that contains a billion triples from the Semantic Web.
   b. Scripted in Pig and executed the programs using multiple nodes clusters in AWS Elastic MapReduce Framework

3. Twitter sentiment analysis using the twitter Application Programming Interface(API) in python

   a. Estimated the public sentiment of a particular term or phrase and tweet.
   b. Analyzed the relationship between location and mood based on a sample of twitter data

4. Implemented a back testing system for portfolio event study using QSTK library in python

   a. Bollinger Bands as an indicator for n look back days
   b. An event study for a defined bol. band values of market and stocks as a signal.
   c. An event analyzer to output a series of trades based on the events
   d. A market simulator and feed the above trades to it.
   e. Performance report of the strategy in terms of total return, average daily return, STDDEV of daily return, and Sharpe Ratio for the time period for the portfolio and the benchmark.

5. Implemented below small applications in terms of Map-Reduce Framework in python

   a. Inverted Index
   b. Relational Join
   c. Matrix Multiplication
   d. Social Network Analysis

Software Development Experience

Visa Payable Automation
2011 - present

Project Overview:

The vast majority of business-to-business ("b2b") payments are administered by organizations' accounts payable departments through costly and inefficient paper-based processes.
Visa Payable Automation(VPA) system automates the process using virtual commercial cards which helps the buyer and supplier organizations to optimize their expense and cash management by operating more efficiently.

Responsibilities Summary:

- Design and develop the implementation of new functional requirements and refactoring the existing ones for the batch applications.
- Lead a globally spread development team ensuring the quality turover of code.
- Work closely with the project teams (IT, PMO and business) from inception of a project to its post-implementation.

Achievements:

- Appreciated by Product-Office people for strong in-depth knowledge of the underlying business and quality turnovers.

Commercial Card Data Repository-Integrated
2006 - 2011

Project Overview:

Commercial Card Data Repository-Integrated (CCDRi) is the Visa Commercial Data Services platform which offers financial data feed, enhanced data matching, and multinational data consolidation to help customers integrate data directly into their existing systems or enhance transaction data for deeper insight into spending. It includes

Responsibilities Summary:

- Develop and maintain the back end applications for the new functioanlties, code fixes and automating the support manual tasks.
- Provide level 3 production support for batch production environment ensuring data processing under the SLAs, leading a globally spread team.
- Perform application deployments/implementations on production servers.
- Work closely with the IT and project management teams for upcoming projects.
- Work closely with the Level 2 and business teams for production issues.

Achievements:

- Appreciated for delivering defect-free code and quick fixes in aggressive timelines.
- Appreciated for performing complex root cause and detailed impact analysis for all levels of audience.

2005-2006

Tolmol Scrapper

Project Overview:
Tolmol is a web portal which provides the customer a comparison of Airfare, Train fare, Electronics goods, Computers, Apparels, Autos at one point enabling users to select their best purchase.

Responsibilities Summary:

- Develop a generic web scrapper to parse the websites using their URLs

Wordecor

Project Overview:

It is an in-house word editor similar to MS word but without using Window's RTB library.

Responsibilities Summary:

- Develop the editor features like Mouse Operations, Carat Movement, Text Selection, Font Manipulations, Text Refreshing, Scrolling, undo/redo, Links etc.