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Ramya Roopini Ravi

Technical Skills

Languages: Python, Java, SQL, R, JavaScript

Frameworks/Libraries: Pandas, NumPy, SciPy, SymPy, ggplot, MapReduce, R Packages, D3.js, Flask, jinja2, Jekyll, PyMongo

Tools: R studio, Gephi, Rapid Miner, Weka, IBM Big Insights for Hadoop, Venism, Load Runner, Silk Performer, Git, Oracle SQL Developer, MySQL Developer, Apache Bigtop, Eclipse, LIWC, Gephi, MongoDB

Other: Git/GitHub

Research Experience

Ranking based on Sentiment Analysis and Hadoop   *January 2015*

- ▪ Implemented a web crawler in Java to extract data from html web pages.
- ▪ Developed a method to perform sentiment analysis of student comments using statistical tool, R.
- ▪ Categorized comments to specific business function using dictionaries and semantic valance.
- ▪ Load the unstructured data into MapReduce program to obtain the weighted parameters and then load into the HESSEM model.

Cognitive Collaborative model, Network Analysis in a Project Team   *July 2014*

- ▪ Collected data for all the teams involved in a software project life cycle from email messages.
- ▪ Implemented text parser to pre-process email data for Social Network Analysis.
- ▪ Study of cognitive collaborative model to improve performance in engineering teams working in different geographical locations on the same project using LIWC

Software Complexity   *January 2014*

- ▪ Study of the relationship of tables in Notredame Sourceforge database.
- ▪ Identified the critical performance metrics that determine the complexity of the software.

Course Projects

Weather Pattern Prediction   *September 2014*

- ▪ Implemented a means to predict weather using NOAA monthly normal data.
- ▪ Developed a method to preprocess and transformed data through joins using Talend ETL software.
- ▪ Used clustering algorithm to identify patterns based on the precipitation for regions and mapped the data points along Longitude and Latitude.
- ▪ Predicted the weather with 80% accuracy using Linear Regression.

Simulate Edge Device Client for Multicast Processing   November 2014

- ▪ Implemented Client server communication of JSON messages containing channel information from Python client to the Java Server.
- ▪ Computed statistics base on usage information of the client on the server side

Work Experience

Cognizant Technology Solutions - *Programmer Analyst*   *November 2009-January 2012*

- ▪ Contracted projects from eBay, Staples and Emdeon client.
- ▪ Kept track of the effort and project status of the team and reported to the manager
- ▪ Maintained the team's project reports, documents and code under quality compliance and assured the preventive and corrective measures are followed.

Emdeon - *Performance Engineer*   *October 2011-January 2012*

- Implemented a case study for performance testing of windows desktop application with winsock protocol
- Bench marked the switch component that the different payer sites utilize to process 5050 requests

Staples - *Performance Engineer*   *January 2011-October 2011*

- Analyzed the complexity of the Enterprise Service Bus and performed tests on the individual components serving the ESB
- Created stubs for sender and receiver for an MQ application, Created test data generation tool which creates xml data files
- Monitored the performance of multiple web servers, DB servers and made a graphical representation of the downfall of the server and logged the activity
- Performed several smoke tests, bench marked the Enterprise Service Bus that is the medium of several applications and performed Performance, Load, Endurance tests.

eBay - *Performance Engineer*   *November 2009-January 2011*

- Reduced response time to render the catalog page by implementing load tests by profiling and monitoring the CPU, DB, and Java response times for loading multiple Images for every item
- Implemented regression, load and performance test for checkout transactions using Bill me later and PayPal checkout and identified performance bottlenecks
- Created scripts to generate millions of test data with complex scripts for checkout, Bill me later, classic search, classified search and performed profiling.

Education

Penn State University - Software Engineering, M.S.   May 2015
Anna University - *Computer Science & Engineering, B.E.*   May 2009

Honors and Activities

- Coursera - Programming for Everybody in Python   *June 2015 - Present*
- Research Assistant-ship during the entire Master's course   *January 2014 - May 2015*
- Girl Develop-it Philly - *Teaching Assistant*   *October 2012 - July 2013*
- Apedf.org - *Graphic Designer*   *June 2012-October 2012*