Surinder Sokhal

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Available: Dec. 2016

Education

Northeastern University, Boston, MA

Masters in College of Computer and Information Science

Relevant Coursework: Data Mining, Parallel Data Processing in MapReduce, Algorithms, Fundamentals of Al

Guru Nanak Dev University, Amritsar, India

Bachelor of Technology in Computer Science and Engineering

May 2013

Dec. 2016

Technical Skills

Java, Android, R (basics), Python Languages:

HTML5, CSS (basics), JavaScript (basics) Database: Oracle 10g, MySQL Web:

Tools: Android Studio, Elastic Search, Eclipse, IntelliJ ETL Tools: Informatica, Business Objects

Cloud Service: EMR, EC2, VPC Source Control: SVN, Git Networking: Socket Programming, TCP/IP **Build Tools:** Gradle, Maven

Work Experience

Masters Teaching Assistant, Northeastern University, Boston, MA

Course: CS6240 Parallel Data Processing in MapReduce (Prof. Jan Vitek)

- Managed guizzes, conducted code walks & graded a class of 32 students
- Impact: Helped students understand the MapReduce paradigm

Nok Nok Labs, Palo Alto, California - Software Engineer Intern (Matthew Lourie)

Project: Deployment of Auth Services (Python, AWS)

May 2016- Present

Big Data:

- Enhanced python scripts to remotely deploy AWS components (VPC, subnets, EC2) in parallel
- Impact: Reduced deployment time by 50%

Project: Automated Test-Harness for improved Agility (Android)

May 2015 - Dec. 2015

Sept. 2013 - July 2014

Jan. 2016 - Apr. 2016

- Enhanced a custom test harness Android app for Nok Nok Labs which included automated test execution, parameterization of test cases and further validation
- Impact: Increased efficiency by 70% and 40% fewer bugs

Innovation Labs, TCS, India - Assistant System Engineer-Trainee

Project: Report Generating Tool (Java, Weka libraries)

- Developed automated scripts using Java Standard libraries and Weka to compute Confusion Matrix, Confidence and Support of associative rules for given datasets and plot test results
- Impact: Increased utilization of available resources by 40% and reduced manual effort

Academic Projects

Stock Price Prediction using Twitter sentiments (Java & Python)

- Crawled tweets using twitter-streaming API and performed sentiment Analysis with an accuracy of 84%
- Result: Predicted rise/fall in stock price with an accuracy of 73% using yahoo finance data

Page Rank & Inverted Indexing (Java, HMTL5 and CSS)

- Implemented multi-threaded web crawler for topic based guery to collect and build an Inverted Index
- Ranked crawled hyper-links based on the requested gueries and displayed top ranked pages

Six degree of Separation (Hadoop, AWS)

- Created pipeline of MapReduce jobs on AWS to prove 'Six degree of Separation' using twitter dataset of 2M records
- Result: Average degree of 4.68 (randomly generated source and destination vertex)

Pac-Man Game (Python)

Implemented graph search algorithms like A*, BFS (Breadth First Search), Min-Max Algorithm and Alpha-Beta Pruning to help Pac-Man find path in the maze

Chat Service (Java, Socket Programming)

Developed Java-Swings based chat application using Sockets for networking

Hadoop, Apache Pig(basics)

Features included group-chat/ Private-chat, emoticons and file transfer

Kadoop (Java, AWS, Hadoop)

- Build Hadoop like framework with 1 Master and Nslave architecture using Sockets for networking
- Features included fault tolerance, managing splits. zero copy

Teen Violence (Android)

- Developed an android application to help Prof. Changiz Mohiyeddini for his research study to help test subjects to avoid violence
- Simulated accept/reject approach using images

GPS Tracking (Android)

- Developed an android application to track the mobile phone's coarse/fine location
- Used Google Maps APIs to plot phone's location

GPA: 3.73/4.0