Apt. 1633 2200, Waterview Pkway Richardson, Texas 75080

Shagun Jhaver

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Education

Master of Science in Computer Science

• The University of Texas at Dallas, Richardson, Texas

GPA: 3.959/4

Thesis: Statistical Classification and String Manipulation Algorithms using MapReduce

Bachelor of Technology in Electrical Engineering

Indian Institute of Technology (IIT) Bombay, Mumbai, India

August 2010

Expected Dec 2014

GPA: 7.46/10

Relevant Coursework & Programming Skills

• Design and Analysis of Computer Algorithms

• Artificial Intelligence

• Advanced Database: Big Data Analytics

• Database Design

• Machine Learning

• Natural Language Processing

• Discrete Mathematics

• Operating Systems Concepts

Languages: Python, Java, C++ Operating Systems: Linux, Windows

Miscellaneous: Hadoop, MapReduce, Pig Latin, Hive, Mahout, Cassandra, MySQL, Git, MATLAB

Research Projects

Brown University

Distributed memory abstraction

Providence, Rhode Island

May 2013 - June 2013

- > Constructed a new system for **Big Data** Analytics using LLVM and Julia.
- > Performed in-memory computations on large clusters in a fault-tolerant manner.

Institut National De Recherche En Informatique Et En Automatique

Paris, France

Hybridization Methods for the analysis of Biomolecular Networks

May 2009 - July 2009

- > Proposed a new mathematical model to calculate Violation Degree
- > Composed a MATLAB library to implement this model
- > Increased the calculation speed of Violation Degree by about 30 times
- > Fashioned the library to guide the search for models satisfying a given specification.

Academic Projects

Comparative analysis of approaches to sentiment analysis of tweets

Jan 2013 - May 2013

- Guide: Prof. Latifur Khan
 - > Implemented twitter data processing in **Java** to predict the ratings of movies.
 - > Employed standard lists of positive and negative words to classify each tweet.
 - ➤ Used the sentiment140 api for the classification using MapReduce.
 - > Created a classification model with naive Bayes method in **Mahout** to classify tweets.

Simulating Nine Men's Morris board game

Jan 2013 - May 2013

- Guide: Prof. Haim Schweitzer
 - > Designed and developed this AI project in **Python** employing alpha-beta pruning algorithm.
 - > Winner in the tournament for the game in the class (76 students).
 - > Wrote reliable and fast code and devised innovative static estimation algorithms.

• Database Design and Implementation Project

Aug 2012 - Dec 2012

- > Compiled a conceptual design (EER model) for a large custom City library database project.
- > Developed a relational schema in third normal form for this design.
- > Wrote SQL statements to create database, populate tables and solve challenging queries.

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> Assembled the database in Oracle and used a database state to verify the correctness of queries.

• Date-Intensive Text Processing of White House Visitor Log

Jan 2013 - Feb 2013

> Wrote programs in Java and applied Hadoop MapReduce chaining to derive statistics.

Professional Experience

Research Assistant

Nov 2013 - Present Richardson, Texas

Data Management & Data Mining Lab, The University of Texas at Dallas

Jan 2011 - June 2012

Software Developer
Future Bazaar

Mumbai, India

- > Head of the Analytics and Business Intelligence Team.
- > Designed an architecture to carry out ETL processes.
- > Built the E-commerce platforms for futurebazaar.com and chaupaati.in using **Django**.
- > Constructed modules for using api's of BI tools.
- > Conceptualized and implemented Order Life-cycle Management, a system to assign and regulate order-states to the order-items using **Python**.
- > Developed an interface for the sellers to track orders, sales summary and product reviews, upload product inventory and edit profile settings.

Math Lab Tutor

The Student Success Center, The University of Texas at Dallas

Richardson, Texas

- > Tutor students at UT Dallas on an individual or group basis.
- > Assist in a variety of subject areas including math, physics and statistics.

Honours

- All India Rank 94 in Indian Institute of Technology Joint Entrance Exam 2006 among 300,000 students.
- Selected from the state for the 4th Invitational World Youth Mathematics Intercity Competition.