2200, Waterview Pkway Richardson, Texas 75080

Shagun Jhaver

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Objective

To obtain a Spring or Summer 2014 internship in the field of Computer Science.

Education

Master of Science in Computer Science

Expected Dec 2014 GPA: 3.953/4

• The University of Texas at Dallas, Richardson, Texas Thesis: Statistical Classification and String Manipulation Algorithms using MapReduce

Bachelor of Technology in Electrical Engineering August 2010 Indian Institute of Technology (IIT) Bombay, Mumbai, India 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

Projects

Developing a new system for Big Data Analytics

Summer 2013

Brown University

Providence, Rhode Island

- > Constructed a distributed memory abstraction using LLVM and Julia.
- > Performed in-memory computations on large clusters in a fault-tolerant manner.

Hybridization Methods for the analysis of Biomolecular Networks Institut National De Recherche En Informatique Et En Automatique (INRIA) May 2009 - July 2009

Paris, France

- > Composed a MATLAB library to implement a model to calculate Violation Degree.
- > Increased the calculation speed by about 30 times.

Academic Projects

Comparative analysis of approaches to sentiment analysis of tweets Guide: Prof. Latifur Khan

Jan 2013 - May 2013

- > Implemented an application of twitter data processing in **Java** that predicted the ratings of movies using three different approaches, and compared the ratings obtained with IMDB rating.
- > The first approach used standard lists of positive and negative words to classify each tweet.
- > The second approach used the sentiment 140 api for the classification using MapReduce.
- > The third approach created a classification model using a training-and-testing data with naive Bayes method in **Mahout**, and then used this model to classify each tweet, thereby rating it.

Programming Project in Artificial Intelligence

Jan 2013 - May 2013

Guide: Prof. Haim Schweitzer

- > Designed and developed a project in **Python** that simulates Nine Men's Morris board game.
- > Wrote efficient codes to output the best possible moves using the Minimax algorithm and alpha-beta pruning algorithm. The code worked correctly for both white and black players, and in the opening, midgame and end-game phases.

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Earned the position of **first champion** in the tournament for this game in the class (76 students) using reliable and fast code and innovative self-designed static estimation algorithms.

• Date-Intensive Text Processing with MapReduce

Jan 2013 - Feb 2013

- ➤ Applied Hadoop mapreduce to derive innovative statistics from the White House Visitor Log containing 2.9 million records.
- > Wrote efficient programs in Java to output the results and used mapreduce chaining for efficiency.

• 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 and wrote **SQL** statements to create the database and views, populate the tables and solve challenging queries.
- > Assembled the database in Oracle and used a database state to verify the correctness of queries.

Professional Experience

Future Bazaar

Software Developer

Jan 2011 - June 2012

Mumbai, India

- ➤ Head of the Analytics and Business Intelligence Team.
- > Constructed an architecture to carry out ETL (extract, transform and load) processes from multiple databases (ATG, Oracle, MySQL) into a single MySQL database.
- > Conceptualized and implemented Order Life-cycle Management, a system to assign and regulate order-states to the order-items using **Python**.
- > Independently developed *sellers.futurebazaar.com*, an interface for the sellers to track orders, sales summary and product reviews, upload product inventory and edit profile settings.
- > Helped design and build the E-commerce platforms for the websites *futurebazaar.com* and *chaupaati.in* using Django, a **Python** based website framework.

Other Work Experience

Math Lab Tutor

Jan 2013 - Present

The Student Success Center, The University of Texas at Dallas

Richardson, Texas

- > Tutor students at the University of Texas at Dallas on an individual or group basis.
- > Assist in a wide 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.
- All India Rank 396 in All India Engineering Entrance Exam 2006 among 500,000 aspirants.
- Selected from the state for the 4th Invitational World Youth Mathematics Intercity Competition.