Dharmik Patel

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Education

- New York University, Tandon School of Engineering — Aug 2014-May 2016
  Master of Science in Computer Science (MSCS) (3.56/4.00 GPA)
  Relevant Course Work: Foundation of computer science; Design and Analysis of Algorithm; Programming Languages; Computer Networking; Application Security; Cloud Computing; Programming with Big Data Analytics; Financial Software lab

- Gujarat Technological University, India — Aug 2008-May 2012
  Bachelor of Engineering in Computer Engineering (B.E.CE) *(7.36/10.00 CGPA – Distinction)*

Skills

Languages- *Java, Python,* SQL, C, C++, Haskell, C#, J2EE, JSP, JavaScript, Angular js, HTML/CSS
Databases- MySQL, *NoSql,* MongoDB, Redis, SQL Server, RDS
Others - *Big Data Analytics*, Hadoop Map Reduce, pig, Hive, HDFS, H-base, Pandas, AWS, Amazon EC2
Others - Git, Eclpise, Sublime, PyCharm, Jupyter, UNIX, Linux, Excel

Experience

Metricle | Position: Jr. Data Analyst Intern — Spring 2016
Responsibilities:

- Assist with building statistical models, forecasting metrics and creating predictive analytics
- Aggregate analytics and create insightful data visualizations
- Research and analyze publicly traded companies and develop trading strategies to implement
- Create algorithms to collect the data in an efficient, clean process

Arthance | Position: Web Developer Intern — Summer 2015
FormADV Analytics (Python, Django, BeautifulSoup, SQL Server)

- Extracted meaningful data from unstructured FormADV data files using Python and Beautifulsoup which would store data in the SQL Server. Different modules of the project automate the process and track the changes in SEC Filings which then are used for further Analytics.
- On the First Run it looped through 10K number of files and generated about 1.8 million rows of data.
- Worked with Front end team to create Pie Charts and Bar charts to see portfolio activity using D3js.

Academic Projects

Stock recommendation

- Designed an engine that analyses more than 3200 stocks prices of last 25 years from yahoo using Hadoop MapReduce. Based on volatility and performance, stocks are ranked. Using Twitter Live Streaming API we collect the data and rank the sentiment of market on stock using Stanford NLP library for recommendation.

Unix File System

- Implemented Customized file system using FUSE, a kernel loadable module, which would manage current processes active or retired of the operating system. The File system created a multilayered structure to better organize processes.

Mini Blog

- Developed a scalable web application using J2EE and Amazon RDS where users can read or write based on a trending topic according to their interest. Trends are collected using Twitter and Reddit API. Login is provided using Facebook Graph API and users likes and preferences are taken to better serve the content.

Twitter Map

- Developed a Web App using Java, Mongo DB and deployed using Amazon Elastic Beanstalk. It maps the tweets to its location in the world heat map. User can view tweets on map containing particular word or hashtag.

Mini Projects

- Implemented Dinning Philosophers problem and implemented three different solutions for the problem including Dijkastra's own solution using multithreading.
- Implemented simpler version of Page Rank Algorithm using Map Reduce as Big Data Technology.
- Implemented secure password manager using Java Crypto that encrypts password in user's choice of mode (i.e ECB, CBC or CTC) and uses shadow file to manage passwords.

Achievements and Extra Curricular

- Won 2nd prize in Robo Fifa Event in National level technical festival organized at CITC.
- Part of Event Management Committee of National Level Award Function organized at CITC.
- Developed Classic Arcade Games like Memory Game, Black Jack, Ping Pong etc using Python.