Dharmik Patel

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Education

New York University, Tandon School of Engineering   Aug 2014-May 2016
Master of Science, Computer Science   **3.56/4.00 GPA**

> _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, Computer Engineering   **3.62/4.00 GPA**

Skills

Languages: Java, Python, SQL, C, C++, Haskell, C#
Databases : MySQL, NoSql, MongoDB, Redis, SQL Server, RDS, SSMS
Web Tech. : HTML/CSS, JavaScript, Node js, React js, Redux, React-Native
Tools   : Git, Docker, Jupyter, UNIX, Linux, Excel, AWS, Amazon EC2, Eclipse, Sublime
Others   : Big Data Analytics, Hadoop Map Reduce, pig, Hive, HDFS, H-base, Pandas, .Net, Agile development

Experience

Software Engineer at IAB   July 2016-Present
- Developing features and maintaining HTML5 Ad validator as well as VAST validator.
- Developing Ad Block Detection Software. Contributing to Anti Fraud and Malware Detection initiatives.

Data Analyst Intern at Metricle   Spring 2016
- Technologies used - Python, Pandas, Yahoo API, Docker, React js, Redux, MongoDB, IB API
- Developing E-trading web application using React Js and Redux with Redis.
- Research and analyze publicly traded companies and develop trading strategies to implement.
- Create algorithms to collect the data in an efficient, clean process to make effective parsers.

Teaching Assistant – Application Security, Prof. Kelly Lum, NYU- TSOE   Spring 2016
Web Developer Intern at Arthance   Summer 2015
- Technologies used – Java, 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 using an application created with C#.
- Created automation to track periodic changes in SEC Filings of each firm to create 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 collected the data and ranked the sentiment of market on stock using Stanford NLP library for recommendation.

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.

Fun Projects
- Created a Web application like youtube using Youtube Search API using Node js and React js.
- Developed a Web Application that gives Weather forecasts of city in different line charts such as temperature, humidity and pressure using React js and Redux.
- Implemented simpler version of Page Rank Algorithm using Map Reduce as Big Data Technology.

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.