

Dharmik Patel

 [goo.gl/2A2fVu](https://github.com/dharmikpatel) ■  [goo.gl/21T06M](https://www.linkedin.com/in/dharmikpatel) ■ 347-836-2071 ■ dvp236@nyu.edu

Education

Graduate Studies:

- 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

Undergraduate Studies:

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

Skills

Keywords: Java, Python, SQL, IPython, C, C++, Haskell, C#, J2EE, JSP, JavaScript, Angular js, HTML/CSS, SQL Server, MySQL, NoSql, MongoDB, Redis, **Big Data Analytics**, Hadoop Map Reduce, pig, Hive, HDFS, H-base, AWS, Amazon EC2, **Cloud Computing**, RDS, Pandas, MVC, Git, Eclipse, Sublime, PyCharm

Internships

Metrickle | Position: Data Analyst

Spring 2016

Summary: Metrickle is a big data analytics company which leverages machine learning, social network analysis, natural language processing and time series analysis to detect market moving events in real times. I have been working extensively on python, pandas, excel and Mongo DB at metrickle.

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 LLC | Position: Web Developer Intern

Summer 2015

Summary: Arthance is a Fin tech Start up where I contributed in development of a cloud based product that focused on addressing issues of investors and investment managers.

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 automates the process and tracks 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. Finally using Twitter data collected using its API and Stanford NLP library, we try to measure the sentiment on the market as well as the stock in particular.

Unix File System

- Developed 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. The trends will be taken using twitter API and reddit API. User can also login using Facebook and write ups shown to them will be based on their likes.

Twitter Map

- Developed a Web App using Java, Mongo DB and deployed using Amazon Elastic Beanstalk. It will show recent tweets about particular trend from around the world in World Map.

Mini Projects

- Implemented Dinning Philosophers problem and implemented three different solutions for the problem including Dijkstra'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.