

# Gaurav Kshirsagar

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## EDUCATION

### University at Buffalo, The State University of New York

Master of Science, Computer Science and Engineering

Aug 2014 - Feb 2016

### University of Mumbai (Sardar Patel Institute of Technology), Mumbai, India

Bachelor of Engineering, Computer Engineering  
First Class

Aug 2010 - Aug 2014

## WORK EXPERIENCE

### Wread Wrkr LLC

Software Engineer Intern

Jun 2015 - Aug 2015

- Researched Native Advertising and Ad-serving Systems used by producers and Architecture of Ad-exchanges
- Developed web application features Music Streaming, Music Feed, Text Article Feed using Meteor JS

## ONLINE COURSES

Introduction to Big Data with Apache Spark (CS100.1X), UC BerkeleyX (www.edx.org)

Sep 2015

## INDEPENDENT PROJECTS

### Friend Recommender System (Apache Hadoop, MapReduce Java)

Aug 2015

- Designed and implemented 'People You May Know' system used in networking websites
- Extracted mutual friends from a social network graph of 50K users and recommended 10 other users to each user

### Food Truck Locator for Uber coding challenge (Flask, Python, AJAX, Bootstrap)

Dec 2015

- Created a maps-based app with for easily finding nearby food trucks with geolocation

### Text Analysis and Entity Resolution with Amazon and Google Products (Apache Spark, Python)

Sep 2015

- Performed data cleaning, matching, integration and analysis on Amazon and Google product datasets

### Apache Server Log Analysis (Apache Spark, Python)

Sep 2015

- Found statistics like frequent hosts, frequent endpoints, failed requests, failed endpoints for one day and month from an Apache Server Log File

## ACADEMIC PROJECTS

### Distributed Hash Table Storage based on Chord system (Android, Java, Distributed Systems)

Mar 2015

- Developed a chord system in Android consisting of nodes to store data in (key, value) format
- Implemented insert, query and delete operations to access and modify the data

### Handwritten Digit Recognition using Neural Network (Python, Machine Learning)

Feb 2015

- Developed 3 layer Perceptron neural network and trained it with useful features of 50K handwritten digits from MNIST dataset
- Achieved an accuracy of over 95% in classification

### SVM-based Classification of Superpixels of Images into Labelled Groups (MATLAB, Classification of pixels)

Dec 2014

- Studied various methods of categorizing parts of an image into meaningful classes
- Used a SVM classifier with varying parameters to extract useful features from a training dataset of about 1K-50K superpixels within images and used them to predict classes of superpixels in other images

### FindIn - An ad-serving system modeled on current search engines (Java, JSP, Apache Solr)

Dec 2014

- Implemented an Ad-serving system based on indexed NY Times corpus of 12K news articles and a dataset of 5K ads
- Ranked ads based on No. of clicks, Cost per click (CPC), bid price and relevance to result and keyword

### News Search Engine (Java, Parsing, Indexing, Retrieval)

Oct 2014

- Parsed, tokenized and indexed a corpus of about 10K news articles
- Implemented an evaluation engine for queries and ranked the results on the TF-IDF and Okapi weighting models

### Data Analyzer and Modeler based on Social Network (Twitter) Data (Python, Data Analysis)

Apr 2014

- Obtained live tweets using Twitter Streaming API and performed sentiment analysis using NLTK Algorithm

## SKILLS

**Languages:** Java, Python, SQL, MATLAB, C++

**Web Technologies:** JavaScript, Meteor JS, MongoDB, AJAX, jQuery, HTML, CSS, Bootstrap

**Source Control:** Git

**Software:** Visual Studio, Android Studio, Eclipse, NetBeans, ROS, VMWare Workstation, VirtualBox

**Platforms:** Android, Linux, Windows, Mac