

## Nandita Rao

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### EDUCATION

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#### **Columbia University, Fu Foundation School of Engineering and Applied Science, New York, NY**

MS in Computer Science, Systems Track

Expected December 2013

#### **M.S. Ramaiah Institute of Technology, Bangalore, India**

July 2006 – May 2010

BS in Instrumentation and Technology

### PROJECTS

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Github link: <https://github.com/NanditaRao>

- **All of the Lights**(Java) Sep 2012 – Dec 2012  
Followed the Waterfall model to design, develop and perform extensive testing on the web application that allows users to create an itinerary for a day at Times Square; used NYC Opendata to obtain data which was stored in MySQL; Backend processing done using Struts2 framework; Hibernate used for application to database mapping.
- **Videos4U**(Java) Feb 2013 – Mar 2013  
Designed and developed a web application that provides the user with services like uploading , downloading ,streaming and rating videos; used Amazon S3 for storage of videos; employed CloudFront service for distribution of videos; implemented rating feature using Amazon RDS.
- **BigData – HITS Algorithm**(Python) Apr 2013 – May 2013  
Wrote Map-Reduce scripts that sift through Enron email corpus which contains 619,446 messages, to give the top five authoritative in-links and out-links amongst the executives in the mails; used Amazon S3 bucket to store the corpus; Executed the scripts by creating an Amazon EMR job.
- **Bidding System** (Java) Oct 2012  
Designed and developed a Java project that used multi-threaded programming in order to simulate a chat system allowing users to put up items for sale and bid for items that are available; Used UDP-Socket programming to manage communication between server and clients.
- **BatSignal**(Java , Python) Feb 2013 – May 2013  
Developed an android application that detects if the user of the phone has been in an accident of G Force 3.5 or higher using Twilio API; Backend processing done using Django framework; Amazon EC2 and RDS services used for storage and monitoring of data.
- **Sentiment Analysis on Finance Data** (python) Mar 2013 – May 2013  
Developed a Google app Engine application which gives the sentiment associated with a company; Data obtained from Twitter, Facebook, Google and Yahoo Finance an stored on Google data store; Machine learning methodologies used: Naive Bayes, Multinomial and Bernoulli text representations and KNN.

### WORK EXPERIENCE

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#### **Software Developer Intern, Mediaocean, MBuy Division**

Jun 2013 – Aug 2013

#### **New York City, New York**

Software model followed: Agile methodology

- Developed a new method to implement reports which lead to an improvement in the speed of Reporting section of the MBuy application.
- Performed complete evaluation of Tableau – BI tool for reporting, and created a report to indicate if the tool met all of the Client requirements.
- Implemented a Click fraud detection script which uses Hadoop to process BigData and applies SVM algorithm on Mahout to isolate fraudulent data.(On-going project in Fall internship)

#### **Software Engineer, Samsung India Software Operations, Mobiles R&D Division**

Jan 2012 – Jul 2012

#### **Bangalore, India & Suwon, South Korea**

Assigned complete responsibility for porting of vendor code, extensive testing and bug fixing for all sensors, in five mobile devices and two tablets at the kernel and Hardware Abstraction layers of Android.

### TECHNICAL SKILLS

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Languages: Java, C, Python, C++, C#

Framework/ORM: Struts 2, Hibernate, Django

Cloud Technologies: Amazon AWS, RDS, S3, Elastic Map-Reduce, CloudFront, CloudWatch, Google App Engine

Database: MS-SQL(5.2), SQLite, MongoDB

### LEADERSHIP AND ACTIVITIES

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- Elected Department Representative of Computer Science at the Engineering Graduate Student Council (EGSC) at Columbia University.
- Elected member of ISAC - Indian Student Association at Columbia.