

## Bhavdeep Sethi

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### EDUCATION

**Columbia University**, New York, NY

Master of Science in Computer Science, Machine Learning

Expected Dec '15

Relevant Courses: Machine Learning, Algorithms, Cloud & Big Data, Big Data Analytics (Teaching Assistant),  
Advanced Machine Learning, Natural Language Processing

**University of Mumbai**, India

Bachelor of Engineering, Information Technology

June '10

First Class with Distinction

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### ACADEMIC PROJECTS

**Center for Computational Learning Systems**, Columbia University

Sep '14 - Dec '14

- Developing a system to classify emails as privileged /sensitive given an email corpus
- Building a Semantic Summarization System to summarize a privileged email without sharing any sensitive information
- Tools used: Weka, StanfordNLP, NumPy, SVM-rank, MALLET, ARKref

**SkillLender**, Cloud & Big Data, Columbia University

Sep '14 – Dec '14

- Developed a web app to create a market place for skills using Facebook Social Graph
  - Tools used: Amazon EBS, SQS, SES, RDS, Neo4j, Express, Facebook SDK
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### RELEVANT EXPERIENCE

**Flipkart.com** – Bangalore, India

Senior Software Development Engineer

July '12 - July '14

Software Development Engineer

Oct '11 - July '12

- Designed and developed a platform that ingested over 1.2 TB data everyday from heterogeneous systems, normalized it, transformed it to user pivot and generated meaningful insights about the user [Java, YARN, Hbase, Storm, Kafka, TitanDB, Couchbase, Vertica, Dropwizard, ElasticSearch, MariaDB]
- Involved in the design and development of a new workflow engine for the Traffic Generation Team to achieve high throughput by parallelizing the workload using the Actor model [Scala, Akka, Hbase, RabbitMQ, ElasticSearch]
- Responsible for re-designing and developing the service responsible for sending all Transactional/Marketing communication (Email/SMS/PushApp Notifications) to the customers of Flipkart [RabbitMQ, Redis, HBase, MySQL, Apache Velocity]
- Implemented Recommendation Module for mp3 and eBooks using Item to Item Collaborative Filtering [Java, MapReduce, Redis]
- Developed the Meta and Content Ingestion System for Digital Platform scraping feeds in various formats (xml, json, csv) [Java, Spring Core, Hibernate, MySQL, MongoDB]
- Designed and built the Business Intelligence for Digital Platform which involved Async data collection, BISG Report generation and Notification system for clients [Play, Akka, MySQL]

**MIME360 (Mallors Inc., now part of Flipkart.com)** Mumbai, India

Full Stack Developer

Aug '10 - Sep '11

- Maintained and extended the existing Audio Content Managing System (CMS) and Reporting System to add support for Video content, White Label Sites and Mobile Apps [PHP, Perl, Python, MySQL, jQuery]
  - Responsible for managing/extending the company's core API along with providing tech support for it's integration [PHP]
  - Involved in developing various Android Apps for the clients of the company
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### TECHNICAL SKILLS

Computer Languages	Java, Python , PHP, Scala, Perl, Ruby, C, C++, Node.js
Relational Store	MySQL, Oracle, MariaDB
Tuple / Columnar /Document Stores	Redis, Memcached, Couchbase / Hbase / CouchDB, MongoDB, ElasticSearch
Frameworks	Play+Akka, Spray, Ruby on Rails, Dropwizard, Spring 3.0, Jersey, Express
Message Frameworks	Kafka, RabbitMQ
Big Data	Hbase, Spark, MapReduce, Hive
Front End	HTML, CSS, JavaScript, jQuery
AWS	EC2, EBS, SQS, SNS, SES, S3, EMR
Others	Matlab, Weka

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### ACHIEVEMENTS

- MSTA Fellowship - Columbia University, Spring '15
- Teaching Assistant – Big Data Analytics, Cloud & Big Data, Modern Internet App Development