

# Arnav Ahire

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## EDUCATION:

- **Pursuing Masters of Science in Computer Science.** **Anticipated Graduation Feb 2018**  
**State University of New York at Buffalo, Buffalo, NY, USA.** **GPA- 3.67**  
Courses - Analysis of Algorithms, Software Engineering Concepts, Information Retrieval, Computer Security, Distributed Systems, Machine Learning, Computer Architecture & Data Intensive Computing.
- **Bachelor of Engineering in Computer Engineering.** **Aug 2010 - May 2014**  
**University of Pune, Pune, India, Result: First Class with Distinction**

## TECHNICAL SKILLS WITH HANDS ON EXPERIENCE:

- **Programming languages:** Core Java, R, Python, Android, C, C#, VHDL.
- **Tools & Technologies:** GitHub, BitBucket, Lucene API, Apache Solr, Amazon Web Services, Eclipse IDE, Android Studio, Jupyter Notebook, SQL-Server Database, .Net, Tableau, HDFS, MS Office, MapReduce.
- **Web development:** HTML5, CSS3, JavaScript, XML, JSON, JSP, Bootstrap.

## PROJECTS:

- **Replicated Key Value Storage** **April 2017**  
A simple implementation of Amazon Dynamo DB (Replicated Key Value Storage) which involved Partitioning, use of Quorum Replication and also facilitating failure handling (1 failure node amongst 5 nodes).
- **Simple Distributed Hash Table (DHT)** **April 2017**  
Developed a simple distributed hash table based on the design of Chord. Three things implemented in this project in addition to creating a content provider were ID space partitioning, ring-based routing and node joins.
- **Text Processing using Hadoop MapReduce** **April 2017**  
Performed text processing (lemmatization) on a set of documents containing Latin Text and performed word co-occurrence on these documents using MapReduce.
- **Data Cleaning and Munging** **March 2017**  
Converted raw data from XML to a readable structured format (.csv) in R, extracted and transformed the data from Kaggle SQLite European Soccer database into data frames for question-answering and transformed the data collected from Pew survey into relevant graphs through exploratory data analysis (EDA).
- **Group Messenger- Android** **March 2017**  
Implemented a group messenger in Android with ISIS algorithm for total ordering of multicast messages. Also implemented a content provider to store and retrieve messages and their sequence numbers from processes. Used SQLite database as the database for storing messages.
- **Data clients and Information Servers** **February 2017**  
Performed Twitter Data Extraction using Twitter REST API and processed the data using a library 'twitterR' of R programming language. Also visualized the extracted data on a real world map using 'ggplot2' package of R.
- **Data Ingestion and Solr Setup** **September 2016**  
Developed a code in Java to collect Tweets from Twitter through Twitter API using Twitter4J library for Java in a document (.json format) and performed indexing on the same using Solr and checked whether correct terms were indexed by firing appropriate queries.
- **M2K Upgrade** **November 2014**  
Worked in a team of 8 people in a deployment project where-in we had to deploy Microsoft 2013 servers that replaced the 2003 edition servers of our client. This data migration included testing and verification of the correctness of the client database along with new applications and files that would support the previous data.

## CERTIFICATIONS:

- **Java Programming** course conducted by Seed Infotech Ltd **August 2013**
- **Quantitative Aptitude** course conducted by Seed Infotech Ltd **January 2013**
- **C Programming** course conducted by Seed Infotech Ltd **November 2011**

## SEMINARS:

- **Java Path Finder (JPF)** **April 2017**  
Discussed the architecture and working of a model-checking and software verification tool for Java programs.
- **Bit-Torrent** **April 2013**  
Discussed importance, terminologies, vulnerabilities and their solutions of a file sharing protocol 'Bit-Torrent'.

## PUBLICATION:

- **Self-Adaptive Energy Conserving Cloud Storage System** **February 2014**  
International Journal of Engineering Research and Technology (IJERT)