

Education

Northeastern University, Boston, MA	Expected Graduation: Dec. 2016
Masters in College of Computer and Information Science	GPA: 3.73/4.0
Related Courses: Data Mining, Parallel Data processing in Map Reduce, Fundamentals of Artificial Intelligence, Algorithms, Information Retrieval, Programming Design Paradigm	
Guru Nanak Dev University, Amritsar, India	Aug. 2009 – May 2013
Bachelor of Technology in Computer Science and Technology	
Related Courses: Data Structures, Programming in Java, Operating System, Database System Management	

Technical Skills

Languages:	Java, Python, Racket, Android, R (basics), Shell Scripting(basics), Velocity Engine
Web Technologies:	HTML5, CSS (basics), JavaScript (learning)
Big Data Technologies:	Hadoop, HDFS, HBase (Basics), PigLatin (basics)
Databases:	MySQL, Oracle10g
Networking:	{TCP/IP, HTTP, OSI Model} (Basics)
Business Intelligent Tools:	Informatica, Business Objects
IDE's and Tools:	Android Studio, Elastic Search (beginner), NetBeans, Eclipse, IntelliJ
Source Control:	SVN, Git

Work Experience

Nok Nok Labs, Palo Alto, California - Software Engineer Intern	May 2015 – Dec. 2015
Project: Automate Test Harness Android Application (Android)	
<ul style="list-style-type: none">Enhanced a custom test harness Android app for Nok Nok Labs S3 authentication product lineWorked in all phases of SDLC (Software development life cycle) in an Agile driven environmentEnhancements included automatic unattended test execution, parameterization of test cases, and validationWorked in close cooperation with Supervisor and other team members to form a team effort in developmentCoordinated with Testing team to fix defects discovered as a result of automatic testing	
Tata Consultancy Services (TCS), Gurgaon, India - Assistant Software Engineer Trainee	Sept. 2013 – July 2014
Project: Report Generating Tool (Innovation Labs)	
<ul style="list-style-type: none">Developed automated scripts using Java Standard libraries and Weka for generating reportsAutomation included computation of Confusion Matrix, Confidence and Support of associative rules for given datasetsEnhanced automation script to compare and plot test results for different parameter values	

Academic Projects

Six degree of Separation in Map Reduce	Sept. 2015 – Dec. 2015
<ul style="list-style-type: none">Implemented Breadth First Search (BFS) in Map Reduce using EMR, EC2 and S3 on AWS (Amazon Web Services) on twitter dataset of 2 million recordsCleaned and preprocessed twitter data to build adjacency matrix for representing graphImplemented sequential run of Map-Reduce jobs to explore discovered nodes at each levelProved the claim for "Six degree of Separation" on randomly generated Source and destination vertex	
Inverted Indexing and Page Ranking in Java, HMTL5 and CSS	Jan. 2015 – May 2015
<ul style="list-style-type: none">Implemented multi-threaded web crawler for topic based query to collect and build an Inverted Index on the crawled pagesEliminated frequently occurring words using "Stopping Word List" and used "lucene-snowball.jar" for stemming.Implemented various ranking models like TF-IDF, LM with Laplace Smoothing and others to rank the crawled data and hyper-links based on the requested queriesDeveloped GUI for displaying the top ranked pages	
Pac-Man project in Python	Sept. 2014 – Dec. 2014
<ul style="list-style-type: none">Implemented graph search algorithms like A*, BFS (Breadth First Search), Min-Max Algorithm and Alpha-Beta Pruning to help pacman find path in the mazeImplemented Q-Learning, Reinforcement learning, Bayes Net, Laplace Smoothing to help Pac-Man to train pacman	