





# AKASH SINGH

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## EXPERIENCE

**Google**, Mountain View, CA      **Software Engineer (Engineering Residency)**      July 2017 – Present

- Worked on youtube mix freshness and coverage improvements
- Working on internationalization for Google Assistant modules to annotate and read text in different languages

**Bloomberg LP**, New York, NY      **Software Engineer Intern**      May – July 2017

- Implemented smart search mechanism using Python to translate human language based text to SOLR queries
- Added enhancements to display realtime updates in data visualization charts using C++ and JavaScript

**Nvidia**, Santa Clara, CA      **Software Intern**      May 2016 – Jan 2017

- Initiated use of Machine Learning in team and used regression to predict build time of jobs on servers
- Performed analytics using Kibana and MapReduce on Nvidia servers' data for infrastructure improvement
- Architected end-to-end data aggregation pipeline using Kafka, Logstash, Elasticsearch in AWS Direct Connect

**ACI Worldwide**, Pune, India      **Associate Software Engineer**      Jul 2013 – Aug 2015

- Developed Java solutions to facilitate Electronics Funds Transfers based on ISO 8583 protocol

## EDUCATION

**Northeastern University**, Boston      May 2017

Master of Science in Computer Science      GPA: 3.75

Courses: Machine Learning, Natural Language Processing, MapReduce, Cloud Computing, Web Development

**University of Pune**, Pune, India      May 2013

Bachelor of Engineering in Information Technology      GPA: 72.13% (First Class With Distinction)

## PROJECTS

**Text Summarization**      **Python, Tensorflow**      Jan – May 2017

- Employed Tensorflow to build a NeuralNet trained on Gigaword dataset which generates summaries for text

**Online News Popularity**      **R**      Jan – May 2017

- Implemented machine learning algorithms to classify given news as popular/unpopular (UCI Dataset used)
- Compared results between Logistic Regression, SVM, Neural Network, Random Forest algorithms

**MapReduce Framework**      **Java, AWS, TCP/IP, Bash**      Mar – May 2016

- Developed MapReduce framework with streamlined API which runs MapReduce jobs on AWS EC2 instances

**Airlines Data Analysis**      **Java, R, AWS, Hadoop, Spark, MLlib**      Jan – Apr 2016

- Applied linear & logistic regression models to find distance - ticket price relation using airlines data
- Predicted flight delays by applying random forest algorithm and naïve bayes classifier

**Hybrid Cloud Services**      **Java, AWS, Spark, MLlib, Twitter API**      Jan – Apr 2016

- Analyzed twitter data using MapReduce and Spark in a hybrid cloud model to find and predict usage patterns

## SKILLS

**Programming Languages:** Java, C, C++, Python, R

**Frameworks:** Tensorflow, MLlib, scikit-learn, Hadoop, MapReduce, Spark, Hive, MVC, Maven

**Web Development:** JavaScript, Express, AngularJS, Node.js, HTML, CSS, XML, Bootstrap, JQuery, JSON

**Databases:** Oracle, MongoDB, SQL Server, DB2, MySQL, PostgreSQL, Cassandra

**AWS:** EC2, S3, VPC, ELB, Direct Connect, Route 53, AMI, IAM, CloudWatch

**Others:** Perforce, Git, Elasticsearch, Logstash, Kibana, Kafka, Redis, SOLR, Heroku, JIRA