





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 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