|  |  |
| --- | --- |
| **Akash Singh** | 🚹 singh-akash.herokuapp.com | linkedin.com/in/singh-akash  📱 (617) 372-7259 | ✉ singh.aka@husky.neu.edu  🏠 1212 Whipple Ave, Redwood City, CA, 94062 |

**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 |