AKASH SINGH

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EMPLOYMENT

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

- Initiated use of Machine Learning in team and used regression to predict build time of modules 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

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

- Developed Java solutions to facilitate Electronics Funds Transfers based on ISO 8583 protocol
- Implemented a high availability server solution in Java for Postilion framework
- Received 5 appreciation awards for my work in software development and L3 Support management

PROJECTS

FoodBook **MongoDB, Express, AngularJS, Node.js** Sep 2016 – Dec 2016

- Employed MEAN stack to build a restaurant search website with social media interaction capabilities

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
- Implemented the fastest solution to find missed flight connections of past 27 years in a class of 100 students

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

- Utilized data tagging mechanism on live twitter feed to segregate them into public and private clouds
- Analyzed twitter data using MapReduce and Spark in a hybrid cloud model to find and predict usage patterns

P2P Resource Sharing **Java, Oracle, TCP/IP** May 2012 – May 2013

- Architected peer to peer application in Java for secure resource sharing over college WLAN

EDUCATION

Northeastern University, Boston May 2017
Master of Science in Computer Science GPA: 3.80
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: 3.83

SKILLS

Programming Languages:	Java, Python, Scala, R, C, C++, Racket
Frameworks:	Hadoop, MapReduce, Spark, MLlib, scikit-learn, Hive, MVC, Hibernate, Maven
Artificial Intelligence:	Regression, Classification, Random Forest, Naïve Baiyes, Clustering, TensorFlow
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, Docker, Heroku, JIRA

EXTRA-CURRICULAR

- Jury for evaluating Human-Computer Interaction based projects across India at 'Techtonic 15'
- Jury for national level competitive programming competition at 'Techtonic 14'