

# AYUSH K SINGH

(857) 302-9712 · 54 Burbank St. · Boston, MA

github.com/singhay · singhay@ccs.neu.edu · linkedin.com/in/singhay

## EDUCATION

---

### Northeastern University

Boston, MA

*Master of Science in Computer Science*

*Expected - Dec. 2017*

- Coursework: Machine Learning, Distributed Systems & Cloud Computing, PGM and Parsimonious Modeling, Algorithms, Cognitive Computing & Deep Learning, Parallel Data Processing in MapReduce
- Received Graduate Certificate in Data Analytics *i.e.* Stats, Mining, Storing, Visualization.
- Developed command line interface to simulate Unix shell and file system in C.
- Built a VM to provision on premise resources from AWS for scaling apps at peak workloads.
- Developed a learning to rank game rating system improving conventional rating system by 8%.
- Programmed solutions for graph search, animations and inventory management in Scheme.

### Graphic Era University

Dehradun, India

*Bachelor of Technology in Computer Science & Engineering*

*Sept. 2010 - Aug. 2014*

- Coursework: Software Engineering, Design & Analysis of Algorithms, Computer Architecture, Computer Networks, Operating System Concepts, Database Management Systems, OOP Concepts
- Location based Online Grocery Store
  - Developed a responsive single page app in MEAN storing sessions in Redis.
  - Devised tool to monitor inventory, track sales & app performance using statsD - Graphite.
  - Built an item-item similarity based collaborative filtering recommender using Spark MLlib.
- Developed Official College Festival website using JavaScript, and Google Docs API.

## EXPERIENCE

---

### TripAdvisor

Boston, MA

*Software Engineer Co-op*

*May 2016 - Dec. 2016*

- Improved personalization from time weighted to collaborative filtering getting 17% sales hike.
- Built an end to end admin app for support team to update subscribers details in MEAN Stack.
- Developed log processor to categorize, process and visualize exim logs in python, Kafka, ELK.
- Built personalized attractions and subject line recommender at hack days in R, python.
- Automated the process of setting up workspace for bootstrapping new hires in bash.

### Indian Defence Research and Development Organization

Agra, India

*Intern*

*July 2013 - Sep. 2013*

- Converted entire paper oriented equipment demand system to online portal using LAMP stack reducing the processing time by 20%.
- Assisted scaling the application horizontally to functional departments of the Organization.

## SKILLS

---

### Languages

C, C++, Python, JavaScript, Java, Scheme, L<sup>A</sup>T<sub>E</sub>X

### Big Data

R, Spark, Map Reduce, Spark, Hive, Pig, ELK, Kafka, Tableau

### Databases

MySQL, RedShift, MongoDB, Elasticsearch, Solr, Redis, Cassandra

### ML and AI

Theano, TensorFlow, Keras, scikit-learn, NumPy, pandas, seaborn, Caffe

### Web

HTML, CSS, JSP, PHP, NodeJS, AngularJS, ReactJS, jQuery, Django, SpringMVC