

AYUSH K SINGH

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EDUCATION

Northeastern University

Boston, MA

Master of Science in Computer Science

Expected - Dec. 2017

- Coursework: Machine Learning, Cloud Computing, Special Topics in AI, Computer Systems, Parallel Processing in Map Reduce, Programming Design Paradigm, Algorithms
- 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 game rating system based on win/loss prediction and optimum skill evaluation.
- Programmed solutions for graph search, animations and inventory management in Scheme.

Graphic Era University

Dehradun, India

Bachelor of Technology in Computer Science & Engineering

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.

TECHNICAL STRENGTHS

Languages

C, C++, Python, JavaScript, Java, Scheme, Assembly, Prolog, AWK, L^AT_EX

Big Data

R, scikit, Spark, Map Reduce, Spark, Hive, Pig, Mahout, ELKB, Kafka

Databases

MySQL, RedShift, MongoDB, Elasticsearch, Solr, Redis, Tableau

Web

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