Aditya Mahajan

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EDUCATION

M.S., Computer Science, *Data Science*   May 2017
The University of Texas at Dallas   GPA **3.55**

B.E., Computer Science   June 2014
Panjab University, Chandigarh, India   CGPA **8.3/10**

WORK EXPERIENCE

Directi, Mumbai, India   October 2014-June 2015
Software Development Engineer
- Developed a fuzzy search for college/institution lookup for registering candidates on the website
- Programmed custom judges for problems in order to check solution to coding problems
- Wrote CRON jobs to daily extract the rank/popularity on websites like Alexa, LinkedIn, Facebook and Twitter

Alert Enterprise Inc., Chandigarh, India   January 2014 - September2014
Software Development Engineer
- Wrote the backend queries for the incident monitoring dashboard
- Resolved the application defects to facilitate stable releases
- Redesigned legacy backend to integrate with the new badge designer UI

TECHNICAL SKILLS

Programming Languages and Tools: C/C++, JAVA, Python, JavaScript
Databases: Oracle, MySql, SQL server
Operating Systems: Linux, Windows, MAC OS
Data Science Languages and Tools: Octave, R, ScikitLearn, Pandas, Hadoop, Mapreduce, Pig

PROJECTS

Cuckoo Hashing
- Using two hash functions increased the load factor to 0.80 as compared to Java's Hash map load factor of 0.75

Custom SQL Shell & DBMS Engine
- Made custom implementation of a database in python
- Used binary files to store the data and used first level indexing in order to reduce the looking time

Parallel Bipartite Graph Matching
- Wrote the data structure to grow bipartite matching trees in parallel
- Decreased the time taken from 1 minute to 4 seconds
- Awarded excellence credit for the same

Character Recognition
- Given a matrix with pixel intensities, made a model to recognize a character.
- Used Support Vector Machine to model the data
- Extracted best features using Principal Component Analysis

ACHIEVEMENTS

- Google Code Jam- Reached the second round and secured a rank of 883 out of 10000 participants.
- Ranked 245 out of 4000 participants in the Santander prediction challenge on Kaggle.
- Stood second in DECODE, the coding event at VYOM 2014(PEC's annual Technical Fest)