

Harsh Jha

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WORK EXPERIENCE

Airseed - Full Stack Software Engineer (Internship)

Jun, 2014 - Aug, 2014

Developed and deployed logging infrastructure using ELK stack and monitoring system using Sensu, Monit and Pagerduty, automated deployment using Ansible. Developed distributed crawling and parsing framework using Ruby, Resque and Docker.

Carlson School of Management - Graduate Research Assistant

Mar, 2014 - Present

Working on sentiment analysis of Facebook pages' posts by extracting data using Facebook Graph API. Results are compared with Amazon Mechanical Turk data to study the efficiency of various sentiment analysis methods (and corresponding machine learning algorithms).

Oracle - Senior Member Technical Staff (Software Developer 3)

Jan, 2013 – Jul, 2013

Oracle - Member Technical Staff (Software Developer 2)

Jul, 2010 – Dec, 2012

- Started and completed **Patch Build Automation project** and **Patch Console Test Automation project** for Oracle Enterprise Manager keeping in mind the end-to-end automation right from bug fixing team to support team.
- Involved in patch/PSU (Patch Set Update)/CPU (Critical Patch Update)/bundle build, release and associated QA activities, for Oracle Enterprise Manager.

RESEARCH EXPERIENCE

Worked with **Prof. Vipin Kumar** on time series clustering methods. This work was focussed on evaluating time series clustering methods for land cover datasets. Zimbabwe's land cover dataset was taken for past 11 years, and different farming regions (unimodal, bimodal and others) were classified.

TECHNICAL SKILLS

C, C++, Python, Ruby, AWS, Redis, MySQL, ELK stack, Ansible, Docker, neo4j, MATLAB, STL, scikit-learn, Matplotlib, NLTK, Django, Rails, Facebook Graph API, Weka, Git, Selenium

EDUCATION

M.S. – Computer Science

University of Minnesota, Twin Cities

Sep, 2013 - Dec, 2014 (Expected) | GPA: 3.59/4.00

Coursework: Introduction to Data Mining, Introduction to Recommender Systems, Statistical Analysis, Artificial Intelligence II, Introduction to Machine Learning

B.Tech. – Information Technology

Indian Institute of Information Technology, Allahabad

Jul, 2006 - Jun, 2010 | GPA: 8.8/10.0

Coursework: Design and Analysis of Algorithms, Software Engineering, Object Oriented Methodologies, Operating System, Database Management System, Artificial Intelligence, Information Retrieval

PROJECTS

Movie Rating Prediction using Twitter's Public Feed (Python, NLTK)

Developed a utility which lets user find rating for a movie (out of 5) based on 100 latest public tweets related to that movie using **Naive Bayes Classifier** and **Sentiment analysis** of tweets.

Implemented various Recommender Systems using Lenskit Recommender Framework (Java, Lenskit)

User-user collaborative filtering, **item-item** collaborative filtering and **SVD** recommender were implemented using Lenskit Recommender Toolkit along with offline evaluation measures like RMSE and nDCG.

Semantic Question Answering System using Text and Image based retrieval (C++)

Developed a basic search engine which takes query as text and returns text and image as result. Aim was to get the most relevant information from the repository (having historical data from a museum) based on the user's query.

MLE Implementation in Distributed Environment (C++, MPICH2)

Distributed MLE (Kalman Filter) algorithm was implemented in a distributed environment using MPI (Message Passing Interface) and running time was compared with MLE implementation on a single node.