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 opinion mining 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.

OPEN-SOURCE CONTRIBUTIONS

Worked with Mozilla's Auto-Tools and other teams to resolve bugs in their Python projects.

TECHNICAL SKILLS

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

EDUCATION

M.S. – Computer Science   **University of Minnesota, Twin Cities**

Sep, 2013 - May, 2015 (Expected)| GPA: 3.65/4.00

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

PROJECTS

Farm Land Cover Classification Using Time Series Clustering Methods (Python, scikit-learn)

Worked on land cover dataset (of 11 years) of Zimbabwe region to classify different sections of land as unimodal, bimodal or other farmlands like human settlements, barren lands, water bodies, etc.

Deployment Of Logging Infrastructure And Monitoring Framework In AWS (AWS, Ansible)

Built the logging infrastructure using ELK (Elasticsearch-Logstash-Kibana) stack and monitoring framework using Sensu, Monit and Pagerduty for Airseed. Automated the deployment in AWS using Ansible.

Yelp Dataset Challenge To Predict The Businesses That Would Close In Near Future (Python, scikit-learn)

Worked on the Yelp dataset challenge to predict which businesses would close in next 3, 6, 9 or 12 months. Dataset contained information of 13k restaurants in Phoenix, Las Vegas and Madison and census data from U.S. Decennial Census.

Facebook Pages' Posts Classification To Understand Companies' Customer Base (Python, scikit-learn)

Classification of Facebook pages' posts in 4 categories - positive testimonial and appreciation, complaint, question or suggestion and irrelevant to understand and study the customer base of different companies.