Aastha Grover

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SUMMARY

An Experienced Software Engineer seeking Full-Time starting Aug 2017.

EDUCATION

NORTHEASTERN UNIVERSITY, *Boston MA*

Master of Science in Information Systems   ***Aug 2017***

Relevant Courses: Engineering of Big Data Systems, Scala, Advances in Data Science, Application Engineering

APEEJAY COLLEGE OF ENGINEERING, *India*

Bachelor of Technology - Computer & Science Engineering   ***July 2013***

Relevant Courses: Analysis & Design of Algorithms, Distributed Operating Systems

SKILLS

Programming Languages:	Java, R, Scala, SQL, Python, C++
NoSQL/Graph Databases:	Neo4j, MongoDB
Big Data Ecosystems:	Spark**,** Hadoop, Map-Reduce, HDFS, HBase, Mahout, Pig, Hive
Web Technologies:	JavaScript, HTML5, CSS3, AJAX, JSP, Servlets, Bootstrap
Frameworks:	Spring MVC, Hibernates
Ide/Tools:	Docker, Apache Solr, Oracle VM Virtual Box, Toad Data Modeller, Plotly, Tortoise SVN, Tableau, Soap UI, Maven, Microsoft Azure Machine Learning, Eclipse, Power BI, XL Miner, GitHub

PROFESSIONAL EXPERIENCE

FIDELITY INVESTMENTS, LLC

*Data Science Co-op***,** *Boston, US*   ***Jan 2017 - Apr 2017***

- Optimized the search functionality of Data Governance website (Collibra) using Apache Solr.
- Simplified modelling efforts of Data Science team at Fidelity by building ontology for metadata in Neo4j.
- Built a pipeline between Apache Solr and Neo4j to enable full text search which retrieves ontology results from Neo4j.

COGNIZANT TECHNOLOGY SOLUTIONS

Programmer Analyst, Chennai, India   ***Jan 2014 - Jun 2015***

- Validated & Managed the Consumer Health records Database portal application built in JAVA (using SOAP UI and RAD).
- Increased business process efficiency by 20% by working on code enhancements and thereafter running test cases.
- Held training sessions for 4 new employees to get them on-board within 2 weeks instead of 4 weeks.
- Reduced records retrieval time from 4 hours to 3 hours by optimizing SQL-Queries.

ACADEMIC PROJECTS

NORTHEASTERN UNIVERSITY, *Boston, MA -* https://github.com/aasthagrover/Projects.git

GetMyFlight– Recommendation for Cheapest Air Tickets (Scala)

- Built a recommendation system in Scala that predicts (61% Accurate) the variation of prices for domestic flights.
- Implemented the deep learning 'Neural Network' on Apache Spark using deeplearning4j library in Scala.
- Developed a Play Framework application to provide a front end, entirely in Scala, which uses an MVC pattern.

Prediction for Business Success – Hadoop Distributed Computing

- Validated business rating from sentiment score of user reviews using Natural Language Processing & Python MapReduce.
- Predicted success rate of a business using 'Boosted Decision Tree' and 'Neural Networks' model which was 79% accurate.
- Analysed business trends using Hive queries on Hue and visualized seasonal trends in Tableau.

Emerging Start-ups

- Built an innovative application which bridges the gap between Entrepreneurs & Investors using Spring MVC & Hibernates.
- Implemented the interaction of Entrepreneurs & Investors using Hibernate Criteria and Hibernate Caching.
- Implemented form validations using JavaScript and AJAX.

Expedia Hotel Recommendation System- Kaggle

- Created an end to end System by building a pipeline to consume Rest services of Microsoft Azure (Back End- Spring MVC).
- Collaborated with team to create a Python widget for cleaning the dataset (outlier detection - Grubb's test & Q-Q plots).
- Improved the accuracy of Random Forest model by 10% (Performance Measures -Confusion matrix, ROC curve).

Insurance Provider Directory – HealthCare

- Built the Database model by thinking of all possible scenarios to create Healthcare insurance claim management system.
- Addressed frequent customer queries by creating procedures, triggers and advanced SQL queries.

Best Practices Implementation – HealthCare

- Developed a JAVA application to implement the Interaction of Department Managers using IoT (Internet of Things).

INDEPENDENT PROJECTS

- Won "*Best use of AWS Award*" as well as "*Newcomers Award"* in International Development Hackathon at Tufts University. (Built a user friendly employment website for Refugees in France).