SREE LAKSHMI SETTURU

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Professional Summary:

- Master's Degree in Computer science with one and half years of experience in application development and support.
- Possess solid understanding of Object Oriented Programming and Design.
- Technology Enthusiast with hands on experience in Big data processing technologies such as Hadoop Map Reduce and Apache Spark.

Skills:

Programming languages: Java, Python, R, SQL, JavaScript
Big Data and Cloud Technologies: Apache Spark, Hadoop MapReduce
Web technologies: HTML, CSS, JSP, Servlets, Bootstrap**,** JSON
Data Science Tool kit: Numpy, Scikit Learn, Pandas, Orange Software
Frameworks: Android, Hibernate
Version Control: Git
Web Services: RESTful
OS: Linux

Work Experience:

Assistant System Engineer, TATA Consultancy Services Jun 2014-Dec 2015

- Designed and developed a web application, which is used by client staff to manage products and sales using **JSP, Servlets & Hibernate ORM**.
- Performed requirement Analysis and designed database schema for the same Java web application.
- Maintained large code base and Enhanced the functionality of a Java Web application built in **Seam** framework. Made code fixes which stabilized the application and reduced the ticket count by 10%.

Education:

Masters in Computer science: GPA**:** 3.8 Jan 2016-May 2017

- University of North Carolina at Charlotte

Bachelor of Technology in Mechanical Engineering: GPA: 3.8 Jun 2010-May 2014

- Jawaharlal Nehru Technological University, Hyderabad, India.

Projects:

Package Tracking System: https://github.com/sreelakshmisetturu/Package-Tracking-System

- Built a tracking system in **Java** following MVC pattern to track the status of the package and a background simulation framework using concurrency of Java threads to update the status periodically.
- Computed shortest path for the delivery of the package between two cities by implementing Dijkstra's algorithm.

Restaurant Website:

- Developed a secure Java web application for restaurants following MVC pattern for managing orders placed by customers.
- Used **JSP, Servlets, JDBC, POJO, CSS3, JavaScript, Cookies, JMS** to build the application.

LZW Data Compression: https://github.com/sreelakshmisetturu/LZW-Algorithm

- Implemented fixed bit-length Lempel-Ziv-Welch compression algorithm for ASCII text in **Java.**
- Achieved a compression ratio of 0.38 for the sample dataset (Ratio varies based on the dataset. Higher the redundancy, lower the ratio value).

NYC Connect: http://webpages.uncc.edu/nbhirud/index.html

- Predicted the area with more taxi demand in given time and day. Achieved 97% accuracy in predicting how much surcharge can be applied when a customer requests a taxi in given time and pick up location.
- Implemented Naïve Bayes, Logistic Regression, K means clustering algorithms in **Apache Spark** and **Python**.

Chicago Crime Prediction:

- Predicted the type of crime that can happen given an area and time in Chicago, using Logistic Regression algorithm in **Python**. Compared these results with results obtained from Artificial Neural Networks.
- Implemented K means clustering to cluster locations into Areas.

Achievements:

- Received "On the spot" award for my commitment towards work as Assistant System-Engineer at Tata Consultancy Services. August 2015
- Stood as topper of the department in first year, B.tech. July 2011