Preetham Mahishi Srinath

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Education

North Carolina State University
Masters in Computer Science (Data Science track)   CGPA: 4.0   Expected Dec 2015
Courses: Algorithms, Artificial Intelligence, Data Mining, Data intensive computing, Advanced Algorithms, Advance Machine learning, Foundations of Data Science, Advance data structures.

RV College of Engineering
Bachelor of Engineering, Information Science   CGPA: 8.63   Jun 2011

Work Experience

Laboratory for Analytic Science, NCSU - Research Intern   *May 2015 to present*
- Text correction in optical character recognized newspaper dataset containing 15 million articles using n-gram and skip-gram model on Apache Spark.
- Explore and analyze the LAS employee monthly reports using word2vec neural model using MLlib and Apache Spark.

Big Data Analytics Lab, NCSU - Research Assistant   *Jan 2015 to May 2015*
- Research under Prof Dr. Nagiza Samatova on building a personal assistant for knowledge workers. Implementing real time user activity processing and indexing for goal driven search engine using Kafka, Apache Storm and Elastic Search.

Cisco Systems - Software Engineer   *July 2011 to August 2014*
- Engineered a solution for automating device testing using developing custom device drivers, which reduced manual-testing efforts significantly.
- Led the development of web UI for HCS Intelligent Loader (HIL) from scratch using JavaScript and Bootstrap.
- Implemented many features using Java in network monitoring and root cause analysis for Cisco Prime Collaboration.
- Rated as one of the top 5% employees.

Cisco Systems - Student Intern   *Jan 2011 to May 2011*
- Developed the Linux port of a Cisco tool called 'Camelot' which simulates multi-protocol VOIP end points.

Patent

- "Automatics of web conference recording via invitation response" - filed on Sep 2013.

Academic Projects

Computer access using gestures
Live Webcam video feed analysis to detect hand gestures using image processing, statistic regression and Kalman filters. Integrated to control MS Office and Adobe reader applications. Implemented in C# .NET

Business pattern prediction with Yelp user reviews
Predict user rating from review and top topic mining for each business along with associated sentiment. Implemented using Python, NLTK and Textblob.

Twitter search engine and top trends
Search engine for twitter with distributed indexing using Apache Storm and Elasticsearch. Top trends using Count-min and bloom filters. Implemented in Java.

Cloud provisioning automation
Automatic provisioning of clusters and configuring applications like Hadoop, MongoDB based on user configuration on cloud providers like Digital Ocean, Amazon web services and OpenStack.

Personal Projects

Provocab.com
Intelligent online tool for managing daily vocab learning. Built on PHP and MySQL. More than 300 active users.

Twitter Sentiment   *go.preetham.in/twitter*
Real-time sentiment analysis of tweets and visualization of results based on user query. Built on NLTK, Python, JavaScript, HTML and Bootstrap.

Nltk-server   *nltk-server.rtfd.org*
Open source project intended to make Natural Language Toolkit accessible to all programming languages by building a JSON based interface.

More on github.com/preems

Skills

Languages: Java, Python, JavaScript, R, C.
Web: PHP, jQuery, Bootstrap, Node.js.
Analytics: Hadoop, Apache Spark, Apache Storm, MLlib, Kafka, scikit-learn, NumPy.