Puneet Singh Ludu

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Education

Master of Science in **Computer Science,** State University of New York, Buffalo   **GPA:**3.45   *expected December 2014*

B. Tech. in **Computer Science,** Jaypee Institute of information Technology, Noida   *2010*

Skills	Adept	Working Knowledge
Languages	Java, C, Perl	C++, C#, Matlab, Python
Web Technologies	HTML, Javascript	PHP, Ruby on Rails, jQuery, CGI, JSP
Big-Data Technologies	Apache Pig	Apache Hadoop, Apache Solr, MongoDB

Independent Projects

Cofounded Gridbits, a services and products company that makes Android, iOS and web applications. Hyroo.in is the first product that helps the costumers rent cars online in India.

ShortCleaner: A JAVA library to clean tweets for consuming it for various kinds of analytics.

jTextBrew: A JAVA library for fuzzy string matching, based on TextBrew algorithm by Chris Brew.

Experience

Research Engineer, *July 2011 - July 2013*, Innovation Labs, TATA Consultancy Services – Delhi

- **Event Detection in Time Series:**   *(Technology and Tools used: Java, Python, Perl, Shell Scripts, Rapidminer)*
  - Worked on a research project involving *multivariate time series with application to classification of events*.
  - Devised an algorithm based on Shape Context for finding frequently occurring patterns and events, with as good results as SAX, DTW etc. with 7% better results in the particular domain of car sensors.
- **Data Harmonization Framework (DHF)** :   *(Technology and Tools used: Java, Apache Pig, XML)*
  - Implemented an *ETL framework* that exploits the power of map-reduce and big-databases to fuse incongruous enterprise data from disparate sources in near real time.

Software Development Engineer, *December 2010 - June 2011,* TATA Consultancy Services – Trivandrum

- **Trainee Evaluation System:** Lead team of two, into the development of 'Trainee Evaluation System' as a part of *Moodle* plugin, deployed in TCS Trivandrum training center. *(PHP, MySql, jQuery)*
- **Resource planning and Scheduling system:** Developed solution for managing infrastructure resources and scheduling lectures. *(PHP, MySql)*

Conferences and Publications

Puneet Singh et al.,"*Architecture for Automated Tagging and Clustering of Song Files According to Mood*", IJCSI, 2010

Puneet Singh et al., "*PSLOS: Command Line Interpreter and Virtual File System*", ICCC, 2008.

Academic Projects

◉ Inferring gender of a Twitter user using celebrities it follows
(Java, Python, Perl, Google API, Apache Pig)
This project classifies gender by levering observable information such as the tweet behaviour, linguistic content of the user's Twitter feed and the celebrities followed by the user.
◉ Quena- A Question and Answering system *(Java, Apache Solr, Stanford NER, Stanford POS tagger, Apache Pig)*
Indexed 1.6 Million Wikipedia documents, designed a question parser and a ranking algorithm based on popularity.
◉ Clustering of songs according to mood *(Matlab, Perl, C#)*
Using music information retrieval techniques, extracted several features from songs and designed an algorithm, to cluster songs based on moods.
◉ English to Hindi Translation and Transliteration *(C, Gambas)*
Translation and Transliteration tools developed in using *Hidden Markov Model* based approach for POS tagging and later translating, while rule engine based approach for Transliterating.
◉ PSLOS – Virtual File system with a CLI *(C)*
Virtual file system using K-ary data structure. Won 6th position in IC3 2008.

Courses

- ◉ Information Retrieval
- ◉ Machine Learning
- ◉ Seminar on Deep Learning
- ◉ Text mining and Web Content Analysis
- ◉ Distributed Systems
- ◉ Data Integration
- ◉ Software Engineering Concepts
- ◉ Data Structures and Algorithms
- ◉ Natural Language Processing
- ◉ Artificial Intelligence

GitHub

https://github.com/puneetsl

LinkedIn

http://goo.gl/kBn6Yo