

# Narendran Sankaran

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## Employment

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### **Web Developer (Student Assistant - Part time); University at Buffalo** *November 2013 - Present*

- Developed an end to end system to efficiently manage critical data across the university's websites that helped to prevent data inconsistency using PHP, MySQL, jQuery, Handlebars, JSON.
- Wrote custom wordpress plugins and an usage dashboard for university's multi-site wordpress installation.
- Developed a RESTful api for an aggregated blog system
- Worked on Google Analytics API to generate custom reports.

### **Systems Engineer; Infosys Limited** *September 2011 - June 2013*

- Key contributor in agile development of a Business analytics dashboard application for Financial and Insurance business unit using Java, Oracle Web Logic, Struts2, Spring.
- Developed various visualizations for financial data using javascript libraries with D3, Fusion Charts
- Published important reusable artifacts that improved the development cycle by significant amount of time and was adopted across the company.

**Professional Affiliation:** Microsoft Student Partner

**Certification:** Microsoft Certified Technology Specialist - HTML5, CSS3, Javascript

## Technologies

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Java, PHP, JavaScript, SQL, Python; Struts2, JSF, NodeJS, Hadoop, jQuery, AngularJS, Handlebars.

Worked on Amazon Web Services and Windows Azure.

## Education

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### **MS in Computer Science; University at Buffalo, The State University of New York - December 2014**

Coursework: Information Retrieval, Big Data Analysis, Distributed Computing, Software Engineering, Operating Systems, Computer Security, Analysis of Parallel Algorithms, Data Integration, Knowledge Representation.

### **BE in Computer Science and Engineering; Anna University, India - April 2011**

Developed websites for various events in college.

Student Ambassador for Microsoft technologies and administrator of MSDN Academic Alliance.

## Projects

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### **Multi source Wiki search application - Information Retrieval**

- Developed a multi-source Person search engine using Apache Solr, PHP, HTML and JavaScript.
- Indexed about 50,000+ documents from Wikipedia articles, Wiki-quotes, Wiki-News and Wiki-Books on separate cores so as to return articles, quotes, books and news about the person queried.
- Implemented a middleware in PHP that does parsing and post-processing of JSON returned from solr server.
- Implemented auto suggest, highlighting, spell check, query expansion, twitter integration.

### **Wikipedia Indexer - Information Retrieval**

- Parsed the XML dump of Wikipedia using SAX parser.
- Tokenized the data by applying tokenization rules on Dates, Numbers, Special Characters, Accents, Punctuation, Apostrophe, Hyphen, Capitalization, Whitespace, and Stemming using Porter's Algorithm.
- Created multiple indexes on the page data as well as metadata.

### **Twitter Big Data Analysis using Hadoop, Hive - Big Data**

- Developed a Java based tweets aggregator that collects tweets from the public timeline with the option of specifying hashtags.
- Wrote SQL queries using Apache Hive to gather useful information from the collected tweets.
- Wrote a python script that filters and generates charts for the collected data using numpy, scipy.
- Implemented K-Means clustering ML algorithm for the gathered data from twitter.

### **Context Aware Personalized Search Assistant using WordNet**

The project involves implementation of a personalized search assistant using user interest models automatically generated from the users search history. This system is designed to be context aware by using knowledge bases like WordNet and Wikipedia, to resolve ambiguous search queries thereby increasing the relevancy of the retrieved documents. The retrieved documents are clustered and filtered according to the interests of the user.

### **Android - Distributed Hash Table**

Developed an android app implementing the distributed hash table mechanism.

### Non-Academic Projects:

#### **Automatic Text Summarization**

Implemented an automatic text summarization in Java for IBM Great Mind Challenge. Implemented keyword based filtering, summarization of pdf, html documents, query expansion and support for other languages using Google translate API.

[Sublime CDN Libraries](#) - A sublime package that provides snippets for popular JS/CSS form CDN

[jQuery Iconify](#) - A jquery plugin that simplifies use of fontawesome based icon set.

[Tweeterapid](#) - A C# based application to showcase the usage of twitter API. Features include long tweets, url shortener and user stats.

[Open link in new tab](#) - A Chrome extension to force opening of links in new tab/window by default.