

## SUVANAM SAIKUMAR

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### Education:

**THE UNIVERSITY OF TEXAS AT DALLAS**, Richardson, Texas, USA

**GPA 3.819/4.0**

Master of Science in Computer Science

Jan 2016-Present

**Coursework:** Machine Learning, Artificial Intelligence, Big Data Analytics, Natural Language Processing, Implementation of Advanced Data Structures and Algos, Database Design, Design and Analysis of Algorithms, Web programming Languages.

**SRM UNIVERSITY**, Chennai, Tamilnadu, INDIA

**GPA 8.5/10.0**

Bachelor of Technology in Electrical and Electronics and engineering

May 2008-April 2012

### Work Experience:

**Software Engineer Intern, BluAge Software Company**, Dallas, TEXAS

Jan 2017-Aug 2017

- Worked on modernization of the Legacy Application code to Java using Spring MVC.
- Enhanced the features of the legacy application according to the requirements of the client.
- Worked on frontend using AngularJS, HTML, CSS to develop the new Web pages.

**Software Engineer, Tata Consultancy Services**, Hyderabad, INDIA

Dec 2012-Aug 2015

- Analyzed and developed various business logic components for the ICICI bank Intranet application using Spring Framework
- Involved in the development of DAO layer for the application using Hibernate framework support.
- Designed and developed new Webpages of the application using HTML, JavaScript and CSS.
- Supported QA team in all Test Cycles, analyzing and fixing the issues rose during QA/UAT testing.

**Teaching Assistant, University of Texas at Dallas**

August 2016-Dec 2016

- Evaluation and grading of assignments, projects for the Graduate courses.

### Academic Projects:

**Pacman-Artificial Intelligence** (Python)

August 2016

- Implemented a series of Pacman projects to understand how Artificial Intelligence algorithms and heuristics can be used to enable a machine think and act like a human. This project covers techniques like informed state-space search, probabilistic inference, and reinforcement learning.

**OnlineTechStore** (PHP, MySQL, JQuery, HTML, CSS, and JavaScript)

June 2016

- Implemented a web based application which is used to buy online electronic gadgets and software's.
- Customers can sign up to the application, search for the required gadgets and buy any desired products.

**BigData-DengAI: Predicting Disease Spread** (Hadoop, Apache Spark, Mllib)

September 2017

- Analyzed the data for feature selection and developed a model to predict the number of dengue cases based on environmental variables. (<https://www.drivendata.org/competitions/44/dengai-predicting-disease-spread>).

**Machine learning** (Java)

July 2016

- Implemented Decision Tree algorithm using information gain for attribute selection.
- Implemented and studied K-means Clustering algorithm on different data sets.

**Natural Language Processing** (Python, Solr, NLTK, Stanford CoreNLP)

October 2017

- Implemented semantic search in Solr with keyword based along with an improved strategy which uses NLP algorithms.

**Implementation of Advanced Data Structures and Algorithms** (Java)

November 2017

- Implemented *Trajan Algorithm for Directed MST, Maximum Reward Collection Problem for given Constraints of a graph*.
- Designed *Multi-Dimensional Search on various Products efficiently using various data Structures* and also Big Integer class.
- Implemented 6 long projects and 8 short Projects as a part of Advanced data structures and algorithms course.

(<https://github.com/saikumarsuvanam/ImplementationofAdvancedDataStructures>).

### Achievements:

- Received TCS on the Spot award for the remarkable contribution to the team in the project.
- Received SRM Merit based scholarship for outstanding performance in intermediate education.

### Computer Skills:

Programming : Core Java, Python, C, C++.

Database and servers : My SQL, Oracle, PL/SQL, Apache Tomcat.

Web Technologies : HTML, CSS, JavaScript, JQuery, Ajax, XML, JSON, AngularJS.

Big Data, ML, NLP Tools: Hadoop, Spark, Scikit learn, Pig, Hive, SparkMllib, NLTK, StanfordCoreNLP, Jupyter.

J2EE Technologies & Frameworks: Servlets, JSP, JDBC, Spring MVC.

Operating Systems, Software's, Tools: Windows, Linux, QTP, Jira, SVN.