# SAI VIVEK KANAPARTHY

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**SUMMARY** Professional Experience of 1.5+ years in developing web and big data applications. Currently looking for opportunities as a Full-Time Software Developer.

## EDUCATION

**The University of Texas at Dallas**                                                                                    Aug. 2016 **–** Dec. 2018 (Expected)
*Master's Degree; Computer Science (Spl: Data Science); Jonsson School* **Graduate Scholarship** *Recipient*          **3.80/4.00**
(**Coursework**: Machine Learning, Natural Language Processing, Big Data Analytics, Database Design, Web Programming Languages, Implementation of Advanced Data Structures and Algorithms, Design and Analysis of Algorithms, Statistical Methods for Data Sc.)
**Indian Institute of Information Technology & Management Gwalior**                                          Jul. 2011 – May 2016
*Integrated Post Graduate (B. Tech + M. Tech); Information Technology*                                      **7.64/10 (Cumulative)**
                                                                                                            **10/10 (M. Tech Thesis)**

## PROFESSIONAL EXPERIENCE

**Mavenir,** *Software Engineer Intern* | Dallas, TX                                                              Jan. 2018 – Present
- Designing a framework which is used to create state chart XMLs. Developing the front end Graphical User Interface of the framework using Angular 4.
- Developed the back-end of the framework using Python, which builds the SCXMLs from the flow charts on the GUI.

**VOMO,** *Jr. Developer Intern* | Dallas, TX                                                                    Sep. 2017 – Dec. 2017
- Developed the accounts application of the VOMO platform and an internal staff website to maintain users and accounts using Node.js and deployed it on Amazon Web Services(AWS) EC2 and DynamoDB.
- Analyzed data to suggest volunteer projects for users using content based and collaborative recommender systems.

**Securonix,** *Big Data Developer Intern* | Dallas, TX                                                          May. 2017 – Aug. 2017
- Developed integrated framework using Apache SOLR, Hadoop and Spark for improving the quality of big data solutions on large scale datasets.
- Optimized the indexing and search performance of Apache SOLR using Java, Spark and Web Services built on Spring MVC in Cloudera environment which uses Hadoop Distributed File Systems.

**UT Dallas,** *Web Developer* | Dallas, TX                                                                      Nov. 2016 – Jan. 2017
- Designed web pages of Prof. Yvo Desmedt using HTML, CSS, JavaScript and exposure to tools like Latex.

**DHL Information Services,** *Software Engineer Intern* | Kuala Lumpur, Malaysia                               Dec. 2014 – Mar. 2015
- Part of Global Lookup Service Facility team, working on aiding the customers to find the nearest DHL service points to pick up or drop off shipments using Python for processing requests and MongoDB for data storage.

## CERTIFICATIONS & TECHNICAL SKILLS

**Certifications:**            **Coursera:** Machine Learning, Neural Networks and Deep Learning, Object Oriented Programming in Java, Java Programming: Solving Problems with Software, Advanced Data Structures in Java, Algorithms Design and Analysis;
**IBM:** Big Data Foundations, Hadoop Foundations; **MongoDB University:** MongoDB for Developers (Python);
**Programming Languages:** Java, J2EE, Python (nltk; Pandas; Flask), JavaScript, Node.JS, jQuery, HTML5, CSS, C++, C
**Big Data Technologies:** Apache Hadoop, Apache Spark, Apache Kafka, Apache SOLR, Scala, Pig, MapReduce, R
**Databases:** MongoDB (NoSQL), MySQL, Oracle DB ,PostgreSQL    **Misc:** Bash, UNIX/Linux, Agile, Design Patterns

## ACADEMIC PROJECTS

**Online Banking Application (Angular 4, Java, Spring Boot, REST Services, JPA, MySQL)**                          May. 2018 – Jun. 2018
- Implemented an application analogous to real-life banking application using Spring Boot framework. Developed the front-end using Angular 4 and the backend REST Services using Java. Integrated MySQL using JPA. (github.com/saivivek15/OnlineBankingApp)

**Messenger Application (MongoDB, Express, Angular, Node.js)**                                                   May. 2018 – Jun. 2018
- Implemented a messenger application where users can exchange messages using MEAN stack. Developed the front-end using Angular 2 and backend using Node.js. Integrated MongoDB to store users and messages. (github.com/saivivek15/MessengerApp)

**Implementation of Advanced Data Structures and Algorithms (Java)**                                            Sep. 2017 – Dec. 2017
- Implemented BFS, Dijkstra, A* algorithms on real-time google maps data to compute the shortest distance between two locations and Euler tours on these maps. Implemented Multi-dimensional search analogous to amazon for adding, removing and fetching items of similar prices and descriptions and generating invoices using TreeMap, HashMap and HashSets. Implemented Big Integers and arithmetic operations on Big Integers in Java. (github.com/saivivek15/Graphs)

**Electronic Auction (Java, JSP, Spring MVC, RESTful Services, Hibernate, Oracle DB, Maven)**                    Mar. 2017 – Apr. 2017
- Electronic Bidding Website developed for both buyers and sellers, where products are sold by auctions using JSP pages with CSS and jQuery. Developed the back-end using REST services, Spring MVC and Hibernate. (github.com/saivivek15/ElectronicAuction)

**Near Real Time Event Detection (Python, Apache Spark, Apache Kafka, CoreNLP, SEMAFOR, MongoDB)**               Mar. 2017 – Apr. 2017
- Encoded real time news feeds to event types using SVM and multinomial Naive Bayes in Spark env. where feeds are queued over Kafka server. Text analysis on news feeds is performed using CoreNLP and SEMAFOR. (github.com/saivivek15/Event-Detection)