

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 the Graphical User Interface built on Angular 4 which generates JSON objects. Developing Python scripts which convert these JSON objects to state chart XML.

VOMO, Jr. Developer Intern | Dallas, TX

Sep. 2017 – Dec. 2017

- Developing new front end features on VOMO platform and an internal staff website to maintain users and accounts using Node.js and Webflow and deploying it on AWS Elastic Beanstalk.

- Optimizing and analyzing data to suggest volunteer projects and organizations for users to follow using Machine Learning techniques like recommender systems.

Securonix, Big Data Developer Intern | Dallas, TX

May. 2017 – Aug. 2017

- Developed integrated framework and sample application 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 Developer 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 technologies like 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, Python (nlTK; Pandas; Flask), JavaScript, Node.JS, jQuery, HTML, CSS, C++, C

Big Data Technologies: Apache Hadoop, Apache Spark, Apache Kafka, Apache SOLR, Scala, Pig, MapReduce, R

Databases: MongoDB (NoSQL), SQL, Oracle DB

Miscellaneous: Git, Shell, Bash, UNIX/Linux, Agile, Scrum

ACADEMIC PROJECTS

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 extended it by implementing Euler tours on these maps.

- Implemented Multi-dimensional search analogous to amazon selling tens of thousands of products for adding, removing and fetching items of similar prices and similar descriptions and generating invoices using TreeMap, HashMap and HashSets.

- Implemented Big Integers and arithmetic operations on Big Integers in Java, various versions of Merge Sort (avoid copying, combining with insertion sort) and Quick Sort (Dual Partition, Random Pivot Partition) on Generic arrays.

Electronic Auction (Java, JSP, Spring MVC, REST Services, Hibernate, Oracle DB)

Mar. 2017 – Apr. 2017

- Electronic Bidding Website developed for both buyers and sellers, where products are sold by auctions. Developed the back-end functionality using REST services, Spring MVC and Hibernate. The front-end is developed using HTML, CSS, JavaScript, JQuery.

Near Real Time Event Coding (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 environment where feeds are queued over Kafka server. Text analysis on news feeds is performed using CoreNLP and SEMAFOR and knowledge base, WordNet.

Stylometric Analysis of E-mail Content for Author Identification (Python, MongoDB)

Jan. 2016 – May. 2016

- Identifying the author of an arbitrary e-mail by using customized writing style features like lexical, syntactic, idiosyncratic attributes and syntactic n-grams using Stanford coreNLP and scikit-learn and by applying Support Vector Machines, Random Forest, Neural Networks and Boosting Classifiers