KARTHIK RAMAKRISHNAN RAMAKRISHNAN

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OBJECTIVE
Graduate student of Computer Science, seeking full time opportunity, in the field of Computer Science using strong technical skills and expertise in designing algorithms, knowledge of UNIX and strong coding skills in Java with rich experience in Big Data and its ecosystem.

EDUCATION
Master of Sciences in Computer Science   **May 2017**
The University of Texas at Dallas, Richardson, TX, USA   **GPA: 3.62 / 4**
Relevant Courses: Statistical Methods for Data Science, Machine Learning, Implementation of Advanced DSA, Database Design

Bachelor of Technology in Information Technology   **April 2013**
Anna University, Chennai, TN, India   **GPA: 8.5 / 10**
Relevant Courses: Software Engineering, Operating Systems, Data Structures and Algorithms, OOPS, OOAD, Web Technologies

TECHNICAL SKILLS
Languages	**:** Java, Scala, Python, R, Unix Shell Scripting
Databases	: Oracle 11g, MySQL, NoSQL – MongoDB, HBase
OS	: Linux, Mac OS, Windows
Hadoop Stack	: Hadoop, MapReduce, Hive, Pig, Kafka, Storm, Spark
Environments and IDE	: Eclipse, Spring Tools Suite, GitHub, Maven, PyCharm

PROFESSIONAL EXPERIENCE
Data Services Intern – Copart Inc, Dallas, TX   **August 2016 – Present**
- Assisted the team in building a dashboard of reports for executive board and customers using Pentaho Business Intelligence
- Working on a data streaming pipeline to stream data from Databases to Solr cloud using Apache Kafka
- Created some documentation using Confluence

Technology Intern - pSolv LLC, Dallas, TX   **June 2016 – August 2016**
- Built an ETL pipeline using Apache Kafka, Apache Storm and Oracle Database
- Wrote Python and Shell Script to automate the ETL process
- Worked on Drools engine for processing business rules

Wipro Technologies Limited – contracted to MasterCard International   **Dec 2013 – July 2015**
Designation: Project Engineer **Role**: Big Data Administrator/Developer
- Installing, Configuring and Tuning Enterprise Production Hadoop Clusters
- Implemented Kerberos Security (cross-realm authentication), High Availability and Backup and Recovery
- Developed a small proof of concept by integrating Spark, Kafka and a simple Java API

ON CAMPUS STUDENT WORKER
Instructor – Center for CS Education and Outreach – UT Dallas   **Dec 2015 – June 2016**
- Handled various afterschool camps for school students
- Taught using MIT Scratch, Alice, Java and Python
- Helped students crack programming contest problems using Java and Python
- Developed materials for Java and Python and contributed to the CS Outreach github profile

ACADEMIC PROJECTS
Crime Data Analytics using R – Machine Learning   **Spring 2016**
Built a machine learning model using multivariate regression and negative binomial distribution to predict crimes rates, time and type of crimes in the city of Chicago. We had the dataset from a crime database from the City of Chicago Website. We had to do a lot of data cleaning and exploratory data analysis before we could build a prediction model out of it.

SDN Firewall using Floodlight – SDN Project   **Spring 2016**
Developed a firewall application using L2/L3 Header inspection, Blacklisting of IPs using Mininet and Floodlight Controller. We also collected stats to look at busy switches and provide security accordingly.

Bipartite Matching - Implementation of Advanced DSA   **Spring 2016**
Implemented the bipartite matching algorithm using parallel processing. This project was done in Java 8 and Eclipse and was tested for efficiency using a large graph of 1000 vertex and 10000 edges. Runtime was under two minutes.

Activity Center – Database Design Project   **Fall 2015**
The project built a database system from scratch for the college Activity Center, using Oracle 11g that included PL/SQL for batch jobs. The ER model was done using draw.io and we integrated the DB build and we tested out using a sample frontend system developed using Java Swing.

LEADERSHIP
- **Nominated** for Student Leadership Awards 2016 at UT Dallas for leading the media team as part of Grads of Computer Science (GCS)