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**OBJECTIVE**

Seeking an intern/co-op position in the field of Computer Science for Spring 2017 or Summer 2017, where I can utilize my skills as well as learn the best practises from the organization.

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**EDUCATION****University of Texas at Dallas, Texas, USA - MS in Computer Science**

August 2015 – December 2017

*Graduate course work:* Big Data Management and Analytics, Design and Analysis of Algorithms, Machine Learning, Database Design, Algorithm analysis and data structures, Discrete Structures, Statistical methods of data science, Operating Systems.

**Gujarat Technological University, Ahmedabad, India – BE in Electronics and Communications**

June 2009 - May 2013

*Undergraduate course work:* Microprocessor, Microcontroller and Interfaces, C Programming, Object Oriented Programming with C++, Embedded Systems, Image processing, Digital Logic and Design, Digital Signal Processing.

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**TECHNICAL SKILLS**

Programming Languages	: JAVA, SQL, PL-SQL, C, C++, R
Web Development Languages	: HTML/HTML5, CSS/CSS3, JavaScript, PHP
Big Data Technologies	: Hadoop/Map Reduce, Apache Spark, Pig, NoSQL
Database	: MySQL, MongoDB
Tools and Packages	: Eclipse, R Studio, Sublime Text2, Notepad++, MATLAB Simulink
SDLC Methodologies	: Waterfall, Agile

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**WORK EXPERIENCE****TATA Consultancy Services (TCS) - Pune, India****Assistant System Engineer**

March 2014 – July 2015

<b>Project</b>	Next Gen Cruise Control(NGCC) Development using MATLAB Simulink modelling [Navistar Inc.]
<b>Role</b>	Software Developer
<b>Description</b>	The NGCC controls vehicle speed based on GPS data and 3D map. The main idea was to increase the fuel economy and reduce the fuel consumption by 3%.
<b>Responsibilities</b>	<ul style="list-style-type: none"> <li>Development the main logic of the feature using MATLAB Simulink MBD as per the requirement finalized.</li> <li>Unit level validation by creating Test Environment.</li> <li>To communicate with client as well as all stakeholders involved for the TCS part done on a weekly basis.</li> <li>End to end support to the client for the whole SDLC life cycle.</li> </ul>

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**ACADEMIC PROJECTS****1) Object Detection and Classification using Machine Learning Techniques**

<b>Description</b>	<ul style="list-style-type: none"> <li>The object detection and Classification system finds and identifies the objects from image. The system is trained with the help of different categories of images like car, chair, bike. The features are extracted and then object categories are detected with the help of Machine Learning concepts with the accuracy of 87%.</li> </ul>
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**2) Database Query Engine (Like SQL) creation using Files and Indexes(JAVA)**

<b>Responsibilities</b>	<ul style="list-style-type: none"> <li>To understand and implement the concepts of files and indexes and JAVA RandomAccessFile class.</li> <li>To make a database query language which supports different statements like USE Schema, CREATE Schema, CREATE Table, USE Table, INSERT INTO Table, SELECT statements etc.</li> </ul>
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**3) Library Management System – SQL project with the help of MySQL database and JAVA Swing GUI**

<b>Responsibilities</b>	<ul style="list-style-type: none"> <li>To create a database host application that interfaces with a backend SQL database implementing Library Management System.</li> <li>To implement the functionalities like Book Search, Availability, Book Loans, Borrower Management, Fines etc.</li> <li>To implement the GUI using a framework. I have implemented the GUI with the help of JAVA Swing.</li> </ul>
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**4) Analyse Social Network data using Hadoop / MapReduce (Run social data of 50000 records on cluster)**

<b>Responsibilities</b>	<ul style="list-style-type: none"> <li>To develop a MapReduce program in Hadoop that gives Mutual friend list of two friends and details like their user ID, Date of Birth etc. using concepts like In-memory join, Reduce side join and Job chaining.</li> <li>To perform different functions like calculating maximum age, sort the user by their maximum age, output top 10 user name and their address from their calculated maximum age.</li> </ul>
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**SELF STUDIES AND ACTIVITIES**

- Completed HTML, CSS and JS course from University of Michigan (Coursera).
- Self-Study in PHP ([www.w3schools.com](http://www.w3schools.com) and [www.PHP.net](http://www.PHP.net)).
- Self-Study in Building Dynamic Websites (Harvard University Open Course) and developed the Library Management System using HTML, JS, PHP and MySQL Database.
- Mentored and trained the new joiners regarding the project as a part of TATA Consultancy Services training team.
- Lead the whole event as an Event head for the Technical Festival called “PRAKARSH” held at SVIT, Vasad.