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# TEJDEEP KAUTHARAM
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## SUMMARY

Computer Engineering (Computer Systems) graduate student with two years of professional experience and three months of internship experience in software development looking for full time opportunity. Core Competencies include:

- Proficient in C++ and Java
- Sound knowledge of algorithms and data structures
- Good OOP design
- Familiar with agile methodologies and SDLC

## EDUCATION

**Master of Science in Computer Engineering (Computer Systems)**                    CGPA: 3.87

Arizona State University, Tempe, AZ.                    **Aug 2014 – May 2016**

**Bachelor of Technology in Electronics and Communication**                    CGPA: 3.7

Pondicherry University, Pondicherry, India                    **Aug 2008 – May 2012**

## TECHNICAL SKILLS

| | |
|---|---|
| **Languages** | C, C++, C#, SQL, Java, Python. |
| **Web Technologies** | HTML5, CSS3, ASP.NET MVC5, ADO.NET, XML, OWL, PHP, AJAX, JavaScript, JQuery, AngularJS. |
| **Operating Systems** | LINUX, Windows XP/7/8. |
| **Tools** | Apache Spark, Apache Hadoop, Protégé, Eclipse, Matlab, Visual Studio, GIT, MS Office. |
| **Databases** | HDFS, PostgreSQL, MySQL, SQL Server 2008/10. |

## GRADUATE COURSEWORK

Big Data Computing, Information Retrieval Mining and Integration, Distributed Database Systems, Artificial Intelligence, Distributed multi-processor OS, Distributed Software Development, Data Mining, Computer Systems (Design and Analysis of Algorithms, Computer Architecture, Computer Networks), communication networks.

## GRADUATE PROJECTS

**Spatial Spark - Geospatial Operations on Distributed Data**                    **Aug 2015 – Dec 2015**

- Designed and developed an application to implement Geo Spatial operations like Closest and Farthest Pair, Convex Hull, Geometric Union and Spatial Join using OOP concepts in Java on a distributed processing framework Apache Spark.
- Implemented Range partition, Round Robin partition, Parallel Join and Parallel Sort in Python using multi-threading concepts on the data stored in PostgreSQL.

**Optical Character Recognition (OCR)**                    **Nov 2015 – Dec 2015**

- Extracted text from image sources by designing and implementing Multi Class Perceptron Classifier and MIRA classifier using Python. Trained and tested these classifiers on set of scanned handwritten digit images.

**Search Engine Implementation**                    **Jan 2015 - Apr 2015**

- Developed the Vector Space Model using just TF/IDF weights to rank the documents in JAVA using LUCENE indexer.
- Developed the Authorities/Hub and Page Rank computation in JAVA on 25054 pages corpus and displayed matched results.
- Developed the clustering of results using K-means algorithm obtained on the top N results using TF/IDF.

**Hotel Booking System**                    **Feb 2015 - Apr 2015**

- Developed a Hotel booking system in C# by using multi-threading concepts that handles multiple booking transactions.
- Developed SOAP and RESTful location based services in C# and developed a 3-tier ASP.Net website which offers these services.

**Message Passing in Client Server Application**                    **Sep 2014 – Dec 2014**

- Developed non-preemptive scheduler in C on Linux by developing queues and Thread Controlled Blocks (TCB).
- Developed semaphore's routines in C and used them to achieve synchronization among multiple threads.
- Developed network API's to send and receive data from local/remote ports in a distributed OS environment.

## PROFESSIONAL EXPERIENCE

*Software Development Engineer*, **Intel Corporation, Hillsboro, OR, USA.**

**Statistical Process Control (SPC)**                    **Jun 2016 –Present**

- Developing Process Control Review System in C# for Statistical Process Control ASP.NET MVC5 web application.

*Software Developer Intern*, **Intel Corporation, Santa Clara, CA, USA.**

**Camera Module Simulator (CMS)**                    **May 2015 –Dec 2015**

- Developed command line utility in C++ for CMS that generates configuration files based on the command line parameters.
- Developed website for CMS and automated CMS input parameter generation using PHP and JavaScript.

*Assistant System Engineer*, **Tata Consultancy Services Pvt. Ltd., Chennai, India.**

**Nielsen Answers Portal (https://nielseninreview.nielsen.com)**                    **Aug 2012 –Jun 2014**

- Designed and developed core business modules in C# and developed converters that converts raw sales data given by retail stores into suitable file formats and loads them into relational database using SQL Bulk loading utilities.