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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 | * Good OOP design |
| * Sound knowledge of algorithms and data structures | * 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** C**GPA: 3.7**

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

**TECHNICAL SKILLS**

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| **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**](https://github.com/prathyks/distributed-multiprocessor-programming.git) **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**](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.