**Purushothaman Ramraj**

Email : ramraj@cs.wisc.edu #9, 228, Langdon Street, Mobile : 832 289 8691 Madison, WI – 53703.

**Objective**

A challenging position where I can use my technical skills and creativity to achieve goals and expectations.

**Summary**

* Strong programming and analytical skills.
* Excellent communication skills.

**Education**

M.S. in Computer Science, University of Wisconsin-Madison

CGPA 4/4

B.E. in Computer Science, College of Engineering Guindy, *May 2010* Anna University, India

CGPA 9.01/10

**Courses :**

Data Warehousing and Data Mining, Artificial Intelligence, Programming and Data Structures, Design and Analysis of Algorithms, Object Oriented Programming, Object Oriented Analysis & Design, Operating Systems, Software Engineering, Computer Vision, Advanced Natural Language Processing, Web Technology.

**Professional Experience**

**Department of Psychology, University of Wisconsin Madison**

Web development *Fall 2010*

Worked as a web developer and programmer for conducting a series of internet based research studies in the UW-Research On Autism Lab.

**Software Skills**

* **Programming Languages:** C, C++, Java
* **Platforms:** Linux, Unix, Windows, Sun Solaris, Mac Os X
* **Web:** HTML, CSS, JavaScript, PHP, XML
* **Frameworks/Application Servers:** J2EE, .NET, Apache Tomcat
* **Database Technologies:** Oracle 10g, MySQL, SQL, PL/SQL
* **Image Processing:** Matlab, Photoshop, Dreamweaver, Flash

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**Publications**

* Harikrishna Narasimhan, Purushothaman Ramraj, “*Contribution Based Clustering Algorithm for Content Based Image Retrieval****”*** in the Fifth International Conference on Industrial and Information Systems, Mangalore, India, August 2010

**Selected Academic Projects**

**Intelligent Trading Bot**

* This artificial intelligent bot trades autonomously and makes a consistent profit in the stock market.
* It includes a text-mining engine to analyze news from all over the world, a statistical buy/sell signal generator with in-built AI and fuzzy logic based trend predictors.
* The system is compatible to all stock markets and trade.

**Biometric Face Recognition based attendance system**

* A fully automatic system for registering student attendance in classes.
* Implemented face recognition (Eigen Faces algorithm) and face detection.

**Machine Translation using a Multilingual approach**

* Efficiently using a bridge language when translating text from one language to another.
* This approach leads to a more robust translation system.

**Stereo Image Search**

* An efficient robust method for depth map extraction from stereo images.
* A content based image retrieval system was built.

 **Human Computer Interaction System**

* Developing life like gaze behavior for robots.
* It takes on inputs like the speaker’s head movement, gesture and speech etc.,

**Achievements and Awards**

* Winner, ***Tux venture (Open Source contest)*** event in **Pragyan’ 09**, the International Techno – Management Festival of National Institute of Technology, Trichy, India.
* Runner up in ***Heptathlon***, (Seven rounds of National Level Inter Collegiate Technical Quiz) held in College of Engineering, Guindy, Anna University, Chennai, India
* Finalist of ***Project-K***, a mega project event in **Kurukshetra 2008**, the International Techno – Management Festival of College of Engineering, Guindy, Anna University, Chennai, India
* Winner of many State level **oratorical and essay competitions** in English.

**Extra-Curricular Activities**

* Office bearer of the Leo Club of Anna University, which extends a helping hand to the betterment of the under privileged sections of the society.
* Head of Student Research Activities of the Computer Science and Engineering Department, College of Engineering, Guindy, Anna University.