

Purushothaman Ramraj

Email : ramraj@cs.wisc.edu

Mobile : 832 289 8691

#9, 228, Langdon Street,
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,
Anna University, India
CGPA 9.01/10

May 2010

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

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.