

## Aravind Krishna Kalavagattu (Aravind)

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### Objective

I am deeply interested in various aspects of data integration, data mining and challenges involved in managing web data. Currently, I am looking forward towards a part-time opportunity that would give me hands on experience in building real-life data systems.

### Education

| Degree                             | Institute ( year of completion )                  | Percentage              |
|------------------------------------|---|-------------------------|
| MS in computer science             | Arizona State University, USA (expected May 2008) | 4.00 GPA                |
| B.Tech (Hons. in Data Engineering) | IIIT, Hyderabad, India (2006)                     | 9.06 CGPA (10 pt scale) |
| Senior Secondary                   | Narayana Jr. College, Nellore, India (2002)       | 94.4                    |
| Secondary                          | Kings E.M. School. Chittoor, India (2000)         | 89.7                    |

### Academic Achievements and Awards

- I was consistently placed in the deans list of academic excellence from Spring-2002 to Spring-2006 in my undergrad college.
- Recipient of prestigious State government's Prathibha scholarship award for all 4 years of my B.Tech (2002-2006) (worth around 500\$ per annum)

### Work Experience

- Working as a research assistant at Yochan Info. Integration Group, ASU in autonomous web databases, and data integration.
- Worked as a Teaching Assistant for the following courses
  - ITWS-Software Technologies\*
  - Data Structures and Algorithms

\*The work involved conducting tutorial and lab sessions on website development, SQL and Network programming. I was also the web master for course website.

### Software Skills

|                              |   |
|------------------------------|---|
| <b>Operating systems</b>     | Windows 9x/2000/XP, Linux                 |
| <b>Programming Languages</b> | C, C++, Java, NASM                        |
| <b>Web Technologies</b>      | HTML, CSS, PHP, CGI, XML                  |
| <b>Scripting Languages</b>   | Perl, Python, Javascript, Shell scripting |
| <b>Database Technologies</b> | MySQL, MSSQL Server                       |

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## Project Experience

### Handling Imprecision and Incompleteness in autonomous web databases

**Technical Environment:** JAVA, MySQL

This is a research project of the Yochan research group. My current role is to analyze various relevance schemes in assessing the user's intent in querying the web database and capturing the imprecision involved in the queries he/she poses.

### Set Join Approach to enhance web search [B.Tech Thesis]

**Technical Environment:** c++, php, JavaScript, MySQL

This project involved, treating the user queries as a stream in mining a frequent query set (FQS). This is used to enhance the speed of search, as well as recommending closely related searches to the user.

### Farm Clustering based on an Agriculture database

**Technical Environment:** C/C++, Perl, MySQL, WEKA, CLUTO

This project involved, analyzing the farms based on the advices they receive from experts, type of crop, soil conditions etc and clustering the farms accordingly. This valuable information is being used to make an expert advice dissemination system for helping farmers scalable.

### Alertearth.org (a non-profitable website to send disaster related alerts)

<http://alertearth.org>

**Technical Environment:** php, html, JavaScript, MySQL

This was a project started by my uncle in reaction to the Indian Ocean Tsunami that occurred in 2004. I was actively involved in the initial design phase of the project, database design, part of the php scripting and in a thorough testing to launch this website.

### Building a Search Engine (ongoing course project)

**Technical Environment:** Java, html, JSP, Lucene (open source)

This is one of my current course projects. This involves 3 phases.

- i. To build a basic search engine using vector space ranking
- ii. To implement Google's pagerank algorithm and other similar approaches
- iii. To implement a nice GUI and clustering techniques over search results

### Other mini projects

Database management system for a company

Simulation of the working of bash shell in Linux, working of a hard disk, memory management algorithms

**VISA Status:** F-1 (Indian citizen) – valid till July, 2009

References:

Dr. Subbarao Kambhampati (professor, ASU)

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Dr. Yi Chen (Asst professor, ASU)

Contact: [yi@asu.edu](mailto:yi@asu.edu)

Dr. P. Krishna Reddy (Associate professor, IIIT)

Contact: [pkreddy@iiit.ac.in](mailto:pkreddy@iiit.ac.in)

### Extra Curricular Activities and Achievements

- My hobby is writing short stories, and I have a publication in an Indian online magazine. (*Pustak mahal's Virtual Digest*). I was the goal keeper of our undergraduate soccer team. I love watching basketball and playing cricket.