

# KALYAN K BEEMANAPALLI

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## OBJECTIVE:

Seeking a Full-Time Software Engineer position in Computer Science related field, to work in a challenging environment, as an integral part of a software development team.

## EDUCATION:

**Master of Science in Computer Science**, University of Minnesota- Twin Cities, Minneapolis

GPA: 3.73 /4.0

Exp Graduation Date: September 2006

**Bachelor of Engineering in Computer Science**, Osmania University, India

Cumulative GPA: 3.96/4.0

Graduation Date: May 2004

## RESEARCH PROPOSALS:

- Worked on a research proposal titled “**Usage Behavior Mining Based Recommendation Engine**”, submitted to the “**Intel Research Council**”. The proposal got accepted and presently working on this project, along with Prof. Jaideep Srivastava, IEEE Fellow, Department of Computer Science, University of Minnesota, Twin Cities

## PUBLICATIONS:

- A.Bose, **K.Beemanapalli**, J.Srivastava, S.Sahar, “Incorporating Concept Hierarchies into Usage Mining Based Recommendations”, WEBKDD’06, August 2006, Philadelphia, Pennsylvania, USA. Also available as UMN CS Technical Report—TR #06-009
- K.Beemanapalli, R.Rangarajan, J.Srivastava, “Usage-Aware Average Clicks”, WEBKDD’06, August 20, 2006, Philadelphia, Pennsylvania, USA.
- P. Desikan, C. DeLong, **K. Beemanapalli**, A. Bose and J. Srivastava, “*Web Mining For Self Directed E-Learning*”, Book Chapter in Data Mining for E-Learning, WIT Press (*also available as AHPCRC Technical Report –TR # 2005-030*).

## WORK EXPERIENCE:

**Research Assistant**, Department of Computer Science, University of Minnesota, MN Mar 2005 – Present

- Working with Prof. Jaideep Srivastava, Department of Computer Science, on the project titled “**Usage Behavior Mining Based Recommendation Engine**”.
- The work as a research assistant includes, building clusters of user sessions and association rules from the raw web logs and eventually building the recommendation system and play a prominent role during testing.
- Involved in developing algorithms to incorporate domain information like concept hierarchy, site topology of the website into usage information to improve the efficiency of the recommendations.

**Research Assistant**, Carlson School of Management, University of Minnesota, MN May 2005 – Aug 2005

- Worked on a project titled “**Predicting Physician Treatment Errors**”. Validated Physician models on the simulated patient database and later performed data analysis on the output.

**Research Assistant**, Department of Astronomy, University of Minnesota, MN Oct 2004 - Mar 2005

- Built an interface in VB.net which can display a movie by analyzing huge amounts of astronomical data. Worked on construction of an **indigenous software “B3D”** which can read compressed dumps of data and rearrange them so that they cater to the needs of the simulation

**Project Intern**, Analog Devices Inc, Hyderabad Design Center, India

Aug 2003 – Mar 2004

- Integrated the Wind River Debug (**WDB**) protocol into the Board Support Package (**BSP**) of AD6680, trademark chip of analog devices. Modified the TCP/IP protocol of WDB to allow the debuggers to access and analyze network packets at transport layer and Ethernet Interface levels

### **COMPUTER SKILLS:**

**Languages:** C, C++, Java, Visual Basic, VC++

**Databases:** Oracle, MySql

**Scripting Languages:** Perl, Python

### **OTHER SKILLS:**

- Honors Diploma in Hardware Engineering from BDPS, India
- Good Knowledge of Network Programming in Unix and Windows

### **PROJECTS:**

- **IBLoader:** Building a loader which will convert relation tables in Oracle to Cell Structure, CDBMS™  
In this project I have made use of Java along with JDBC to connect to the database to retrieve required information by calling stored procedures. Once the data has been read into java environment, we convert into the cell structure.
- **PokerBot:** In this project we have developed an intelligent agent which can play the game of Poker. The project is in the initial stages during which we have been able to develop a basic playing model where we tried to model the human way of thinking and playing the game of poker. Later we wish to improve on this to make the agent learn from experience using Hidden Markov Models.
- **Usage Aware Average-Clicks:** In this project we have proposed a new method for Integration of web usage information and link-structure of the website in calculating the Similarity/distance between the web pages.
- Submitted a survey paper titled “**Privacy in Data Mining**” as part of the coursework. The paper included a description of the evaluation of existing data mining algorithms from the perspective of their efficiency in preserving privacy and ethical issues.
- Constructed a **simulation model for two supply chain network models in C++**. The model was run on real time data collected over 500 days to forecast various parameters related to stocking decision rules.
- Developed **software in Visual C++** that can be used to control and command electronic devices connected to the computer system using the parallel port. This software won 3rd prize in National Technical Symposium conducted by NIT, Trichy, India

### **GRADUATE COURSEWORK:**

Advanced Database Architecture and Implementation, Computational Techniques for Genomics, Advanced Software Engineering, Advanced Internet Programming, Advanced Algorithms and Data Structures, Artificial Intelligence, Statistical Analysis, Database Research, Introduction to Data Mining, Theory of Probability and Statistics

### **RELEVANT UNDERGRADUATE COURSEWORK:**

Software Engineering, Data Warehousing, Algorithm Analysis and Design, Data Communications & Computer Networks, Operating Systems, Distributed Databases, Distributed systems

**HONORS**

- Awarded Merit Scholarship by Department of Human Resources and Development, Government of India for outstanding performance in post-secondary studies
- Awarded Socrates Fellowship award thrice.
- Special distinction of standing among top 0.02% in the qualifying exam for undergraduate study.
- Achieved the rare feat of standing first in the department in undergraduate study continuously for the last 4 semesters. Ranked 2<sup>nd</sup> in the department out of 120 students with an aggregate of 86%

**REFERENCES:**

Available upon Request