

Madhu M Kurup

madhumkurup @ yahoo . com
<http://www.kurups.org/>

Sunnyvale, CA
(408) 242-4286

WORK EXPERIENCE

- ◇ **Engineering Manager**, Yahoo! Inc, Sunnyvale, CA. (Nov 2005 – Aug 2007)
 - Designed and implemented a SOX compliant data warehouse for Yahoo! Search Marketing
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 - Provided supporting data aggregations for major functions within the Panama project
 - Part of the Panama data pipeline leadership team
 - Designed and carried out the Business Continuity Plan for the data warehouse
 - Managed a team of ten developers with interactions with many customers
- ◇ **Software Developer**, Yahoo! Inc, Sunnyvale, CA. (Feb 2002 – Oct 2005)
 - Technical lead for multiple data marts
 - Development of Data mart and large scale aggregations for Yahoo's Business Units
 - Scoping, development, validation and release of these data marts
 - Part of the flexible prototyping team in the data warehousing group
 - Part of the team that developed the next generation of sub page level tracking
 - Lead engineer on Broadband/Access related data reporting
 - Lead developer of the Yahoo! messenger client on Unix
- ◇ **Software Developer**, Yahoo! India Web Services, Bangalore, India. (Oct 2000 - Jan 2002)
 - Developed and maintained libraries used by many engineers in the data organization
 - Rewrote and rebuilt a large materialized view of data used by many systems in Yahoo
 - Primary developer responsible for a cross network distributed data mining application
 - Primary developer on IP Address based data products, sources and libraries.
- ◇ **Network Support Engineer**, Exocore Consulting, Bangalore, India. (Sep 1999 - Oct 2000)
 - Supported deployment of Linux and networking solutions to clients
- ◇ **Consultant**, Innovate Systems, Bangalore, India. (Sep 1997 - Sep 1999)
 - Development and support for clients with specific software needs

EDUCATION

- ◇ **Cornell University**, New York, USA.
 - Master of Engineering in Computer Science (2007 - Present)
- ◇ **Stanford University**, California, USA.
 - Non Degree Option - Graduate level courses (2002 - 2005)
 - Advanced Operating Systems A- , Cryptography A-, DBMS B+ , Software Engineering A
- ◇ **Bangalore University**, Bangalore, India.
 - Bachelor of Engineering in Computer Science, (1996 - 2000)
 - 78.11% , equivalent of a 3.7/4.0 CGPA.

- RESEARCH
- ◇ **Cluster Optimization and Analysis Toolkit**
A simulator to understand and experiment with checkpointing and recovery algorithms in distributed processing to determine optimal strategies in fault tolerance.
Adviser: Professor V. Rajaraman, Indian Institute of Science, Bangalore
Adviser: Professor V. K. Rajuk, University Visvesvariah College of Engineering, Bangalore.
 - ◇ **Support Vector Machines in Handwritten Kannada character recognition**
An exploration of character recognition problems which included feature definition and selection, implementation and optimization to achieve high levels of accuracy in pattern recognition.
Adviser: Professor P. S. Sastry, Indian Institute of Science, Bangalore.
- SKILLS
- ◇ Performance Analysis of large distributed systems
 - ◇ ISO Standard C++ and Perl. Experience with C and Java.
 - ◇ Experience with the functional, object based, object oriented and generic programming methodologies.
 - ◇ Oracle and SQL skills with large volumes of data.
 - ◇ Appreciation of distributed data processing applications, methodology, techniques and systems to handle very large volumes of data inexpensively.
 - ◇ Experience working with and in cross continent development teams both from India and from the United States.
 - ◇ Development with large code bases on the Linux and FreeBSD platforms.
 - ◇ Practical development with the GNU toolkit and Unix shells.
 - ◇ Sysadmin skills, network and security and network management.
 - ◇ GUI programming, GTK and Qt toolkits.
- ACHIEVEMENTS
- ◇ **Yahoo India Web Services (2000-2001)**
Best engineer award.
 - ◇ **Jawaharlal Nehru Center for Advanced Scientific Research National Fellowship (1998-1999)**
One of 10 students in Computer Science nationwide selected for this program.
 - ◇ **Writing** Technology Magazines: PCQuest/Digit India (1998-2001)
Articles on technology and Linux.
 - ◇ **Placement Process Re-engineering** Bangalore, India. (1998-2000)
Intensive course in industry level C++ outside regular coursework. Was selected as a mentor for the next batch of students and was also involved as an instructor and laboratory authority.
- NON TECHNICAL SKILLS
- ◇ Ability to manage people and teams and lead a group effort to success.
 - ◇ Familiarity with Agile techniques, was Scrum Master for sprints
 - ◇ Grasp and convey ideas and concepts quickly and efficiently.
 - ◇ Excellent written and oral communication skills.
 - ◇ Through, dedicated and can handle multiple tasks at one time.
 - ◇ Outgoing and confident presenter.
 - ◇ Speak four languages fluently.
- REFERENCES
- ◇ Available on request.