

Asim Kadav

CONTACT INFORMATION

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RESEARCH INTERESTS

Distributed systems, Operating Systems, adaptive and self-healing systems/algorithms.

EDUCATION

National Institute of Technology, Nagpur, India

Formerly Visvesvaraya Regional College of Engineering : Graduation Date - May 2004
Bachelors in Computer Science and Engineering *with distinction.*(77.585 percentage)

Shivaji Science College, Nagpur, India

Class XII - Higher Secondary School Examinations, May, 2000.

Scored 94% aggregate.

Ranked 19th in the district with 98% in Physics, Chemistry and Mathematics.

Centre Point School, Nagpur, India

Class X - All India Secondary School Examinations, April, 1998.

Scored 91.8% aggregate.

HONORS AND AWARDS

Outstanding performance award from IBM Systems and Technology Labs, April 2007.

Award from Oracle Corporation for consistent performance, April 2005.

Scholarship under National Scholarships Scheme from Central Board of Secondary Education.[File - A-229/98], April 1998.

WORK EXPERIENCE **IBM Systems and Technology Labs**, Pune, India

Systems Software Engineer

February, 2006 - present

Member of India development team of IBM's parallel clustered file system product- GPFS (General Parallel File System) and collaborating with IBM Almaden Research Lab. Currently involved in developing the product for 64 bit Solaris SPARC V9.

Design and implementation of kernel trace device driver and file system mount routines for Solaris. Implementation of VFS layer operations, file system statistics collection, credentials and Access Control Lists implementation and other user and kernel functions. All development has been done keeping scaling, concurrency, optimization and fault tolerance as the undercurrent.

Oracle Corporation, Bangalore, India

Technical Analyst

June, 2004 - February 2006

Development of storage and database solutions including fault tolerant and self adaptive systems, data re-organization, performance tuning and query optimization.

SELECTED PROJECTS

Ranking of files based on inter-file relationships in Semantic Caching.[Ongoing]

Designed log corruption forecast and recovery algorithm as an adaptive system. Was subsequently awarded for the same.[August 2005]

Designed system for monitoring and recovery of ERP cloning systems. [April 2005]

B.E project: "Efficient Trigger Implementation in MySQL 4.0".[April 2004]

Implementation of a complete C Compiler.[October 2003]

Development of Win2Lin, an ext2 file system access system from Win32 systems (under Dr S.R.Sathe).[June 2003]

Design and Implementation of FINE - a web based Content Management System. [August 2003]
(runs <http://www.vnitalumni.org>)

Implementation of 8086 assembler using LEX & YACC.[Feb 2003]

Byte Code Interpreter for Java.[March 2002]

TEACHING EXPERIENCE

Full time courses on Distributed Systems and Memory Management at IBM.[June 2006]

Full time course Database Fundamentals for Quality Team at Oracle Corporation.[June 2005]

PUBLICATIONS

Poster "Approaches to Dynamic Program Analysis" towards the proceedings of "Workshop on Next Generation Programming Languages" organized by IBM Research Labs IIT Delhi.[November 2006]

Paper "Efficient Trigger Implementation Schemes", Co-Author.[April 2004]

Paper "Adaptive Cruise Control as an Embedded System", Asim Kadav, describes the model and the algorithm involved.[February 2004]

SEMINARS AND TALKS

Talk on General Parallel File system Internals on General Large file system implementation issues.[June 2006]

Talk on Oracle ERP cloning and database wait events.[February 2005]

Presentation "Artificial Intelligence Depicted using simple games", presented at a seminar organized under Technical Communication Curriculum.[February 2003].

Presentation "Simple Genetic Algorithms", at Odyssey, National Level Tech Fest.[December 2002].

OTHER ACHIEVEMENTS

Disclosure(IP) "System for Clock Aware Generation of Speed Dial Lists" published at ip.com [IP-COM000152213D].[November 2006]

Stood First in IT Quiz and Second in Software Contest held at Corona-2004 National Level Tech Fest.[March 2004]

Stood Second in IT Quiz held at Aarohi 2004 National Level Fest.[January 2004]

In top 0.1% in India in Mathematics in Class X Examinations.[April 1998]

LEADERSHIP ROLES

Served as Secretary of IEEE VNIT Chapter for the term 2002-2003.

Served as Joint Secretary of the Rotract club of VNIT Chapter for the term 2002-2003.

Awarded Best Rotracter trophy at Inter Rotract Olympiad 2003 held at Nagpur.

Member of Students Development Forum (SDF) at VNIT.

WORKING SKILLS Roles: Requirement Analysis, Software Design and Development, Testing, Deployment, Critical Production Support.

Product Areas: Databases, (Distributed) File Systems and Operating Systems.

Products: Oracle 8.1.7, 9I R2, GPFS (General Parallel File System), Oracle Applications 11i.

Languages: C, Kernel/Device Driver Programming, C++, PHP, Shell, Perl, awk, SQL and PL/SQL (*Oracle Certified Professional*), HTML, CSS.

Operating Systems: Windows NT/2000/XP, Linux, AIX and Solaris

Tools: emacs, vi editor, cscope, lex, yacc, TOAD, MS Visual Studio 6.0, Oracle Applications and ad tools.