

Shubhanan Bakre

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OBJECTIVE:

To work towards a substantial research in the field of Aspect Oriented Software Development with focus on distributed systems.

EDUCATION:

Master Of Science – Computer Science (December 2002) – GPA 3.9/4.0

Illinois Institute of Technology, Chicago, IL.

Bachelor Of Technology – Computer Engineering (May 1999)

Dr. Babasaheb Ambedkar Technological University, Lonere, India.

WORK EXPERIENCE:

Illinois Institute of Technology, Chicago – Graduate College (March 2001 – December 2001) Web programming, website design and maintenance using ASP and Javascript.

Indian Institute Of Technology, Bombay – Department of Aerospace Engineering (Sept. 1999 – July 2000) Designed new algorithm for operations on unstructured grids thereby improving the performance exponentially. Successfully designed and implemented filters for exchanging files between different graphics file formats (IGES, VRML, STL).

Indian Institute Of Technology, Bombay – Computer Center (June 1998 – July 1998) Designed an online course web page updating system using PERL/CGI and the Unix platform.

TEACHING EXPERIENCE

TA, CS536 – Science of Programming (Spring, Summer 2002) A master level course that deals with program verification and proofs.

TA, CS545 – Concurrent Programming (Fall 2002) A master level course that deals with advanced concepts in concurrent programming including an introduction to various concurrent languages like Ada and Concurrent C++.

PROJECTS:

MS Thesis titled “Advanced Separation of Concerns Within Operating Systems Using an Aspect-Oriented Approach” under the guidance of Prof. Tzilla Elrad at the Illinois Institute of Technology.

Implemented the RSA Cryptographic Algorithm Implemented the RSA cryptosystem and the required mathematical libraries required for large integer operations using C++ on the Solaris platform.

Design of an Online Credit Card Purchase System Designed a Web site for online purchase of items through credit cards. The implementation was done using ASP, HTML, DHTML and Java applet. The IIS server was used for handling Client requests. ASP was used for handling the database, which resides in the Server.

Implementation of a Web Server Implemented a fully functional HTTP Server for handling client requests over the Internet. Developed on the Windows NT platform using Visual C ++ 5.0, as a part of the B.Tech Final Year project.

A Simple Parallel Grid Solver Implemented a simple parallel grid solver based on the Gauss-Seidel Algorithm using C and MPI as a part of the Curriculum for the course Parallel Processing.

COMPUTER SKILLS:

Languages: C, C ++, Java, Visual Basic, SQL, COBOL, FORTRAN, Perl.
Operating Systems: UNIX (SOLARIS, IRIX), Linux, Windows 95/98/00, Windows NT, DOS.
DBMS: MS Access, SQL.
Web Technology: HTML 4.0, JavaScript, ASP, Perl/CGI.
Web Server: Apache, IIS.
Miscellaneous: Unix make, MPI library, Lex & Yacc.