

# MEENAKSHI GARG

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## OBJECTIVE

Seeking a part-time challenging position in software development and quality assurance.

## EDUCATION

<i>Master of Science in Engineering</i> (Computer Engineering) <b>The University of Texas at Austin</b> , Austin, Texas	Aug 1992 GPA 3.5/4.0.
<i>Master of Science in Physics</i> <b>Bhopal University</b> , Bhopal, India	July 1989 First Rank
<i>Bachelor of Science</i> <b>Bhopal University</b> , Bhopal, India	June 1987 First Division

## WORK EXPERIENCE

**IBM: Software Engineer**, July 97 - February 98

Worked on Version-to-Version install tools development. Owned, implemented and unit tested COPYFILES component.

**IBM: Associate Programmer**, July 95 - February 96

Worked on DSSGUI development. Technical owner of DSSGUI User's Guide. Also wrote a technical whitepaper on DSSGUI for DEVCON publication.

**IBM: Associate Programmer**, March 95 - June 95

Worked on GUI development for network install on OS/2 platform. Designed, implemented and tested object-oriented code using UFIW and SOM.

**IBM: Associate Programmer**, January 95 - March 95

Worked on enhancing the Personality Neutral Shell for Microkernel release 2. Owned PN Shell component and developed high-level design for four PN Shell features.

**IBM: Associate Programmer**, December 93 - December 94

Part of the team that was responsible for design, development and testing of AIX 4.1 build packaging and distribution (BPD) tools. Designed and implemented version, release, mod and fix (vrnf) approach for post AIX 4.1 releases. Developed design documents, test plans and man pages for new tools. Implemented a tool to create and maintain a program temporary fix (PTF) related database for AIX install. Redesigned build and packaging tools for creating updated versions of AIX 4.1.1. Worked closely with build and integration (BAI) lab on makefiles to build the above tools. Developed test suites for packaging tools.

**IBM: Programmer**, February 93 - December 93

Re-designed and implemented an AIX 3.2.5 korn shell repackaging tool in C. Worked on general defects and features for AIX 3.2.5 and 4.1 BPD tools. Part of the code and design review team for BPD tools.

## PROJECTS & EXPERIENCE

- Object-oriented design and implementation using C++ of some efficient heuristics for the P-center problem. This problem deals with design and implementation of proposed heuristics for the optimal distribution of centers in a large multi-computer network and also presents comparison of their performance in terms of the radius values of the graph. (M.S. Thesis)

- Developed an object-oriented event driven simulator (C++). Generic objects were developed from which application specific instances could be derived.
- Developed software (in C) for concurrent processes, inter-process communication using sockets, and remote procedure calls in UNIX.
- a study of object-oriented databases.

## RELEVANT COURSES

- High Speed Computer Arithmetic
- Graph Theory and its Applications
- Engineering Programming Languages (C++ and UNIX)
- Object-Oriented Design and Analysis (IBM)
- Basic System Administration (IBM)
- Programming with Object Store (IBM)
- Data Structures in C
- Operating Systems
- Computer Organization
- C programming with AIX (IBM)
- Introduction to Multimedia (IBM)
- IBM Microkernel programming (IBM)

## RELATED EXPERIENCE

- **Operating Systems** : AIX, Unix, OS/2, Micro-kernel
- **Computer Systems** : IBM RS/6000, SUN SPARCs, IBM PC, MAC II
- **Programming Skills** : C, C++, Korn Shell programming, Awk, Perl, Sed

## AWARDS

- *University Gold Medal*, University of Bhopal, India – awarded for achieving first rank in M.Sc. (Physics) 1989.

## EXTRACURRICULAR

- President of University Students Association, Bhopal
- Organized and Participated in University cultural events

**REFERENCES:** Available upon request.