

Curriculum Vitae

Rajiv Gandhi

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Introduction

- Proficient in developing windows/database/web applications on Microsoft Visual Studio 2003/2005 IDE using VC++/VB/C++/C# and Java/JEE programming languages.
- Complete understanding and involvement in all the phases of Software Development Life Cycle; feasibility and requirement analysis, design, development, debugging, implementation, documentation and maintenance.
- Expert in writing, testing, and implementing triggers, procedures and functions at Database level and understanding of the principles of DW and DM using Fact Tables, Dimension Tables, Star and Snowflake schema modeling.
- Excellent knowledge of studying the data dependencies using Metadata of Data Stage and preparing job sequences for the existing jobs to facilitate scheduling.
- Strong programming problem solving skills using data structures.
- Highly motivated, good communication and presentation skills, possess analytical/problem solving skills along with the ability to work independently as well as a part of a team.

A Few Major Project Undertaken :

- **Spatial Data Warehouse and Mining**, MTP (Guided by Prof. (Mrs.) P. Venkatachalam, IITB). This is data mining project where data is in spatial/non-spatial form. We already have many techniques to mine, but we lack when data is in spatial domain. This project focuses on the aspects of machine learning with database integrity. We are using Java, VC++ and Spatial extension of MySQL for implementation. We are doing research to find spatial association rules without prior information, using clustering. To realize our aim, formal case studies have been done on many GIS based spatial data miners. More details and reports can be seen at [web page](#).
- **Java Sand Box Architecture**, CS686 (Guided by Prof. R.K. Joshi, IITB) It was study project in which Java security system was studied and its advantages and disadvantages were laid down with respect to its OOPS design.
- **Improved Spatial Data Index in DBMS**, IT608 (Guided by Prof. S. Sudarshan, IITB) In this project we changed the data structure (R-Tree to R* Tree), implemented in spatial extension of PostGre DBMS.
- **Bootstrap Compiler**, "A" level, (small parser) we made this in C language and it is only up to the implementation of parser which translates source code to assembly code which is further processed by assembler
- **Web Based Interface**, IT640 (Guided by Prof. D. B. Pathak, IITB) We laid down the complex specifications of design of alumni web interface and came up with a multi-tier and user friendly interface, which was implemented using HTML & Java technology with DBMS support.

Academics :

- **Master of Technology (CSRE) 8.24** IIT Bombay, Mumbai 2005-2007.
- **M. Sc. (IT) 73%** Punjab Technical Univ. Jalandar 2001-2003.
- **Bachelors** Delhi University New Delhi 1997–2000.

Additional Qualification :

- **"A" Level 74%** DOEACC (Ministry of Info. Tech.) New Delhi 2001 – 2002
- **Two Years Diploma (PNC) 83%** NIIT Ltd. New Delhi 1998 - 2000

Technical Skills

- **Programming Languages:** Java, C, C++, C#, MATLAB, Bash Shell, Assembly Language, HTML, XML and LATEX.
- **Operating System:** Unix/Linux, Red Hat Linux, Windows 98/ 2000/ XP
- **Database:** SQL, Oracle, MySQL, PostGre.

Seminars Presented :

- **Spatial Data Mining Algorithms** (Autumn 2005, under Prof. (Mrs) P. Venkatachalam, IITB). A rigorous study/literature survey was done of existing Algorithms, which are meant for all of three techniques (clustering, classification and association rules) of spatial data mining.
- **Different Aspects for Programming** (Spring 2005, under Prof. R. K. Joshi, IITB). Study of various OOPS techniques was done with respect to their usage in industry.

Training :

- **Computer-drome practice training** for working continuous long hours, **90 Hrs**, NIIT Ltd., New Delhi, May 2000 .
- **Training Program of two week on Quality Management**, The Quality Collage (division of Philip Crosby Associate Ltd.), March 2000.
- **Computer-drome practice training** for working continuous long hours, **157 Hrs**, NIIT Ltd., New Delhi, Dec. 1998

Scholastic Achievements :

- **Cleared the CST examination with High Performance**, CDAC (Govt. of India), January 2005.
- **Won 1st prize for Overnight Programming**, Tecnia School Of Information Technology, New Delhi in March 2000.
- The "A" level project (**BootStrap Compiler**) was rated as **the 2nd best project**.

Extra Curricular Activities and Appointments Held :

- **General Secretary, CSRE Dept. IIT Bombay (July 2006 - Aug 2007)** Initiated sports and cultural activities, currently organizing intra dept. sports meet and department's annual function. Leading the tech fest team of CSRE, IIT Bombay, which is currently working on various projects on convergence technology, for participating in number of national level competitions, across the country.
- **Quarter finalist, Open Badminton Tournament IIT Bombay, participated by more than 200 students in August, 2006.**
- **Vice President, Bofer Academy, PTU New Delhi (May 2002 - July 2003)** Managed College Placement Cell (CPC) team of 14 members. As the head of cultural committee, organized inter-college cultural event called "Hooby" in Dec. 2002, having participation of more than 1000 students.
- **Captained U-19 cricket team of Panipat district & won district-level tournament held in Haryana in 1993.**
- **Participated as a member in speech competition of district level in SD school, Panipat held on July, 1991.**

References:

- Would be rightfully furnished on demand.

Declaration:

I hereby affirm that the information in this document is accurate and true to the best of my knowledge.