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Ravindra Kumar Patel

Work Experience

Organization: Oracle Corporation
Duration: From June 2007 - present.
Designation: Member Technical Staff
Job Title: Software Developer

Academic Qualifications

- B. Tech, Computer Science and Engineering, Institute of Technology, BHU (2003–2007)
- **CGPA:** 8.12/10.00

Semester Grade Points Average (SGPA):

B.Tech	Odd Semester	Even Semester	YGPA
Part-I	7.54	7.22	7.38
Part-II	7.31	8.42	7.84
Part-III	9.59	8.71	9.18
Part-IV	8.07	8.04	8.06

Academic Projects and Internships

- **Porting of NAS Benchmarks for Supercomputers on GPU - (July 2006 – April 2007)**

Mentor: 1- Dr. K. K. Shukla, Department of Computer Science & Engg.
Summary: GPUs are inherently designed for massively data parallel computation. The basic objective of this project is to assess the computation power of GPUs against massively data parallel computation intensive application and compare its performance with general purpose computing processors like Pentium-IV. A significant performance gain was observed for certain applications.

- **Cluster based visualization solution (May 2006 – June 2006)**

Mentor: Praveen Bhaniramka, CEO, Darshan Solutions Ltd. Gurgaon, India

Exposure: C, C++, python and various parallel rendering tool-kits

Summary: The idea of clustered visualization system is to run large graphics applications on a cluster to improve performance, mainly in terms of display resolution (as in case of power-wall display) and/or frame rate. The objective was to obtain the enhanced performance in application transparent way (if possible) or by rewriting the application. My task was to study and experiment with various toolkits for clustered rendering eg Chromium, OpenSG etc, and report the available features and performance statistics.

- **3D-Viewer application (June 2006)**

Mentors: Praveen Bhaniramka & Divick Kishore, Darshan Solutions Ltd.

Exposure: C++, OpenSG, WX-Widgets

Summary: 3D-Viewerapp is an application, which is capable of visualizing 3D data in various formats. My task was to implement and integrate OpenSG data model into 3D-Viewerapp. This data model added the capability of visualizing 'osg' and 'wrl' data format (supported by OpenSG) in 3D-Viewerapp.

- **Web server integration of gsoap based rendering server (December 2005)**

Mentor: Praveen Bhaniramka, (Project Manager, Silicon Graphics India)

Exposure: gsoap, XML

Summary: The objective was to integrate the gsoap based rendering server (which was itself capable to run as a stand-alone server) with apache web server. I used mod-gsoap apache module to integrate the gsoap server with it.

- **Turbo 'C' IDE on Linux (January 2005)**

Exposure: Java

Summary: This IDE resembles Turbo 'C' IDE which provide a graphical user interface to a C/C++ programmer for compiling and running as well as making as an editor for C/C++ programs. It was menu-driven and had hotkeys for Various actions. The objective of this IDE is to provide the power of modern compilers like gcc and g++ with familiar turbo C interface.

- **E-Banking Customer Service (August 2004)**

Exposure: DOT-NET framework, ASP.NET, Web Services, Databases

Summary: The idea of this e-banking solution is to offer a series of services to the Customer as well as to Banking Administration through the Internet which would make it very easy to carry out simple tasks faster instead of making a visit to the bank every time. On the customer side the services would include performing secure transactions, fund transfer from one account to another, requesting cheque books etc. whereas on the banking administration side services include giving statistical and graphical analysis of banking activities, opening new accounts etc.

Technical Skills

- **Programming Languages:** C, C++, Java (beginner level)
- **Platforms:** Windows XP, Linux (Suse/Fedora core), MS-DOS
- **Development Tools:** Qt-designer, Visual Studio (with dotnet framework), Sun-one studio
- **Databases:** MySQL, Oracle SQL

Courses taken in Computer Science

- Digital Logic and Circuit Design
- Data Structures
- Algorithms
- Operating System Concepts
- Data Communication and Network
- Discrete Mathematical Structures
- Computer Architecture and Organization
- Parallel Computing
- Microprocessor
- Programming Languages
- Software Engineering
- Linear Algebra and Graph Theory
- Theory Of Computation
- Compiler Design
- Fault Tolerant Computing
- Artificial Intelligence
- Computer Graphics

Extracurricular activities

- **Treasurer** Computer engineering society, IT-BHU
- **Event Coordinator** IEEE IT-BHU Chapter
- **Librarian**, student library, Department of Computer Science and Engg. IT-BHU
- **Treasurer** Computer engineering society, IT-BHU
- Member of institute website (www.itbhu.ac.in) management group.
- Member of institute intranet development group.

Hobbies/Interests

- Reading literature.
- Playing Table tennis, Badminton, Pool, Chess

Personal Details

Full Name: Ravindra Kumar Patel

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