Priyank Jain

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Career Objective

I am driven by the desire to develop games which gives me an opportunity to work with people from varied backgrounds and grow both personally and professionally.

Skills

Languages C++, C# (.NET), Java, Python, XML

Framework API XNA, OpenGL, Ot

Library CGAL, OpenGL Mathematics, Boost

Tools Visual Studio 2005/2008, CMake, Netbeans 6.0.1,

Eclipse

Source Control SVN

XBOX 360, Windows 7 **Platforms**

Database Technology Oracle 9i, PL/SQL, MySQL 2005, SQL Server, JDBC **Certifications** BrainBench Certified (Java Fundamentals, RDBMS)

Game Projects

Kolor (PC) (In progress)

www.p-yank.com

Technology: C++ / OpenGL /Qt Framework / OpenGL Mathematics / Boost lib

- 3D First Person Shooter with a unique game mechanic of claiming enemies by Colouring
- Custom Collada-DAE importer for importing 3D models
- Custom Frame Transformation classes & First-Person Camera
- Generate Bounding Sphere(s) hierarchy for the imported DAE model
- Improved rendering utilising Vertex Buffer Objects

Juhuligan (PC)

www.p-yank.com

Technology: C# / XNA

- Side scrolling 2D-Arcade game (inspired by Mario)
- Re-usable object oriented architecture and components
- Game State management exploiting State design pattern & finite state automata
- Dynamically changing Face expression on HUD representing current health using Bezier curves

Revenge of the Tanks (PC)

www.p-yank.com

Technology: C++ / OpenGL /Qt Framework / OpenGL Mathematics lib

- Turn based 2D game (inspired by Scorched Earth) using Finite State Machines
- Destroyable landscape using pixel-based collision detection
- Tank AI is based on Finite State machines

Education

University of North Carolina, Charlotte(USA) •

U.P. Technical University, Lucknow(India)

MS in Computer Science BS in Computer Science GPA: 3.8/4.00 (Game Design & Development) May 2010

(Software Development) July 2006

Graduate Coursework

High Dynamic Range Images

Technology: Matlab

- Implemented the High Dynamic range algorithm to retrieve the original color response function for the given photographic scene
- Final result closely resembled the natural scene and lighting conditions

Racquet Ball game

Technology: C++ / OpenSceneGraph

- Simulated experience of a Racquet ball game using the CAVE Virtual Reality technology
- Player body tracked with head mounted tracking

Employment

University of North Carolina, Charlotte(USA)

July 2009 - Present

Role: Research Assistant

- Reconstruct terrain-surface from a point cloud using Marching Triangle Algorithm using C++ & CGAL library
- Implemented Delaunay Triangulation constraint
- Implemented renderer to view the CGAL Polyhedron model
- Exposure to Computational Geometry concepts such as Polyhedron and half-edge data structure

3i Infotech, India

Nov 2007 - Feb 2008

Role: Software Engineer

- Communicated technical concepts to non-technical managers
- Interacted, interviewed, and gathered functional user-requirements from client
- Reviewed System Requirements Specifications

Mahindra Satyam, India

Oct 2006 - Apr 2007

Role: Software Engineer

- Developed conceptual prototype in J2EE technologies for an automotive sector client
- Underwent training in advance Database concepts, PL/SQL, Informatica ETL and ASP.NET (C#)

Ministry of Information Technology, Govt. of India

Jan 2006 – Jun 2006

Role: Intern

- Simplified decision-making for client by facilitating managers to work at concept or knowledge level
- Designed software individually using 3-tier architecture of Presentation, Application & Data Layer
- Implemented design patterns using MVC framework, Data Transfer Object, Data Access Object
- Implemented validation layer attached to Presentation and DAO Layer
- Implemented flexible search utility giving user the option to search based on desired fields
- Custom Exception Library bubbled through the architecture to provide useful messages to the client