Priyank Jain http://p-yank.com/

2114 MacAlpine Circle Morrisville, NC USA

Skills

Languages C++, C# (ASP.NET), Java, Python, ActionScript 2

Application Programming Interfaces OpenGL, Qt, XNA, Boost, CGAL

Tools Perforce, SVN, Nant, Visual Studio 2008, Eclipse

PlatformsNintendo 3DS, XBOX 360, Windows 7Database TechnologyOracle 9i, PL/SQL, SQL Server, JDBC

Employment

• Electronic Arts, NC (USA)

July 2010 – Present

Role: Software Engineer FIFA 3DS (Nintendo 3DS)

Technology: C++, C#, ActionScript2, Nant Scripts, Python

- Extended rendering primitives to support in-game User Interface elements in depth
- Collaborated extensively with the UI designer to get Flash/ActionScript screens working in game
- Modified asset pipeline using Nant scripts to support new game modes
- Moderated C#/Nant scripts which dealt with compiling all the assets of the game
- Setup compiler defines to handle different build configurations in sync with all the other dependency packages
- Worked closely with other team members to ensure project deliverables are completed on-schedule

University of North Carolina, Charlotte (USA)

July 2009 – June 2010

Nov 2007 - Feb 2008

Role: Research Assistant

Technology: C++, OpenGL, Qt, CGAL, Boost

- Developed software for reconstructing terrain-surface using Marching Triangle Algorithm
- Implemented Delaunay Triangulation constraint
- Implemented renderer in OpenGL to view the CGAL Polyhedron model
- Studied computational geometry concepts such as Polyhedron and half-edge data structures

3i Infotech, India

Role: Software Engineer

Technology: SQL Server

- · 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

Technology: Java, Oracle 9i, PL/SQL, Informatica ETL

- Developed prototype application in J2EE technologies for undisclosed automotive sector client
- Underwent training in advance Database applications using Oracle 9i, PL/SQL, Informatica ETL and ASP.NET (C#)

Ministry of Information Technology, Govt. of India

Jan 2006 – Jun 2006

Role: Intern

Technology: Java Swings, JDBC, MVC

- 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
- Developed custom Exception Library to provide useful messages to the client

Independent Projects & Graduate Coursework

• **Kolor (PC)** (In progress)

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- Designed 3D First Person Shooter with a unique game mechanic of claiming enemies by Colouring
- Developed collada-DAE importer to get 3D models into the game
- Implemented custom Frame Transformation classes & First-Person Camera
- Developed Bounding Sphere(s) hierarchy information for the imported DAE model to complement collision detection subsystem
- Implemented efficient hash-based collision detection/resolution for players and bullets in game world
- Improved rendering performance using Vertex Buffer Objects

Juhuligan (PC) Technology: C#, XNA

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- Designed a side scrolling 2D-Arcade game inspired by Mario and Contra
- Focussed the game code to follow object oriented architecture
- Implemented game State management utilising State design pattern & finite state automata
- Developed User Interface that used Bezier curves to change player's expression
- Designed and Developed enemy AI using Finite State Machines

High Dynamic Range Images (Coursework) Technology: Matlab

- Implemented the High Dynamic range algorithm to retrieve the original color response function for a given photographic scene
- Final image result closely resembles natural scene and lighting conditions as seen with naked eye

Racquet Ball game (Coursework) Technology: C++, OpenSceneGraph

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

Education

University of North Carolina, Charlotte(USA)

May 2010 GPA: 3.8/4.00

MS in Computer Science (Graphics and Visualization)

U.P. Technical University, Lucknow(India)

July 2006

BS in Computer Science (Software Development)