Home: (480) 854-9963 Email: keatonvanauken@gmail.com
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Keaton VanAuken

Skills and Qualifications

- C/C++/C#
- DirectX, XNA, OpenGL
- Unreal Script
- Action Script (Macromedia Flash)
- Hero Script
- PHP, JavaScript, XHTML, CSS
- Tortoise SVN and Perforce Source Control

- Unreal 3
- Half-Life Source
- Hero Engine
- Unity 3D
- Doom 3
- Torque
- Extensive knowledge of object oriented game engine programming including gameplay, graphics, Al, audio, input, and shader programming
- Cross-platform graphics experience for both Windows and Unix-based operating systems
- Experience using 3D Studio Max, Illustrator, Photoshop, Z-Brush, and Endorphin helps me to understand the art pipeline to ease communication and solve problems while keeping art in mind

Experience

Dates Project

Dec 2007 -Present *Unannounced Title -* Superstition Studios – Cheyenne Mountain Entertainment Programmer

- Implemented an MMO prototype with a skeleton crew in four months
 - Character movement
 - o Player stats
 - o Graphical User Interface
 - o Player versus Player combat system
 - o Powers
- Collaborated with animator in Hero Engine to implement animation subsystems
 - Animation blending
 - o Real-time animation morphing
 - o Character aim offsets
- Developed monster and NPC AI in both Unreal 3 and Hero
 - o Path finding
 - Spatial awareness
 - o Player interaction
 - o Attack powers
- Worked with designers to build multiple MMO-scale subsystems in Hero Engine
 - Powers System Expedites creation of complex, scalable powers for players and NPCs
 - Effects System Allows designers to create complex effects like buffs, debuffs, and damage over time without scripting
- Implemented a dynamic third person camera system
 - o Camera position changes to offer more visibility in fast-paced environments

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- Built multiple Kismet objects for designers in Unreal 3
 - o Facilitates AI control
 - Manipulation of player stats
 - o Implementation of level-based quests
- Created targeting system using narrow, cone-based hit detection
 - o Focuses on non-twitch gameplay
- Managed the code merges between different departments using Perforce
- Improved the build pipeline with custom made script files to automate processes
 - o Automated installer creation
 - o Build and submit reference shader caches into Perforce

May – Sep 2007 eInspections - Aztec Software Solutions

Application Programmer Internship

• Created a C++ authentication program library used by a C# front-end application

May 2006 –

Kexan Engine – 2D/3D Game Engine

Dec 2007 Solo project

- DirectX and OpenGL based, including cross platform compatibility
- Functional audio, input, math, physics, and AI classes/libraries
- Version of the engine using Microsoft's XNA game library is also available

May 2005 -

Dodgeball Source - Half-Life 2 Modification - <u>www.dodgeballsource.com</u>

Aug 2006 Programmer

- Nominated for Best Half-Life 2 Modification by IGF at GDC 2006
- Gameplay programming using Valve's Source game engine

Jan – Dec

Subterfuge – Half-Life 2 Modification

2005

Programmer

- Unique comical gameplay outside of standard FPS shooters
- Gameplay programming using Valve's Source game engine

Education

Sep 2003 –

University of Advancing Technology

Dec 2007

Bachelor's of Software Engineering, Focus: Game Programming

- Specializations included
 - o Game Design
 - Gameplay programming
 - o Graphics programming