**Profile:** Game programmer with **4+ years** of programming experience, who enjoys working with designers to craft gameplay systems.

* **Extensive experience** with **C++** and **C#** programming languages.
* Finished **2 titles** as **Lead Programmer** using the **Unreal Engine**.
* **Founded** an art studio in India illustrating **leadership skills**.
* Successfully finished game titles within 48 hours during the annual Nordic Game Jams (2010 & 2011); on both occassions being rated in the **top 12 (out of 50) games**.

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| **Skills** | In order of decreasing proficiency |

**Languages** C#, UnrealScript, C++, C, Java, SQL, JavaScript, Actionscript, VB, Objective C

**Libraries & APIs** XNA, WinForms, Scaleform, FlashPunk, OpenGL, WiimoteLib, BWAPI, SQLite.NET, ASP.NET, ADO.NET

**Programs** Microsoft Visual Studio 2010, Tortoise SVN, Unreal Development Kit (UDK), Adobe Photoshop CS5, Adobe Lightroom 3, TortoiseHg, Adobe Flash Builder, Adobe Flash CS5, OgmoEditor

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| **Independent Projects** |

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| **Carioca** | **Lead Programmer** | **May 2011 to July 2011** |
| Carioca is an RPG game developed as part of my master thesis project on **“Framework for Emergent Narrative”**. The project’s aim was to show how simulated game systems are better equipped at creating a more immersive narrative for players.   * Created 3 different **classes of bots**; their action behaviors are defined using UnrealScript states * Designed **AI pathfinding** based on Navigation Meshes * Designed and programmed SQLite database to store game start values, dialogue data and log gameplay debug information * Designed and programmed Scaleform based player **HUD**, game start **menu**, **dialogue screens** and in-game SWF texture rendering to show bot actions * Designed C#/WinForms applications allowing designers to generate new population of bots, and to import dialogue XML data from FlameWind Dialogue Editor to game database   ***Tools:*** *Unreal Development Kit, Visual Studio 2010, nFringe, UnrealScript, SQLite, SVN* | | |
| **Snowball Fight** | **Lead Programmer** | **Mar 2010 to April 2010** |
| The project involved developing a multiplayer only third-person shooter game on the Unreal engine, where kids hit each other with snowballs.   * Job profile of liaising with the project manager and designers regarding production workflow and scheduling * Created the player HUD in UnrealScript * Programmed players to spawn with respective team colored clothes/HUD * Programmed the dynamic attachment of post-processor in UnrealScript so as to create a mock cel-shader effect * Administered game packaging and bug-fixing during the test phase   ***Tools:*** *Unreal Development Kit, Visual Studio 2010, nFringe, UnrealScript, Mercurial* | | |
| **The Gods Must be Crazy** | **Lead Programmer** | **Jan 2011 (48 hours)** |
| This game was developed during the Nordic Game Jam 2011 in Copenhagen, Denmark. The game is a 2D physics based game where players try to destroy life in a solar system by lobbing meteors. It won the **Jury’s Choice Award** from games researcher Jesper Juul.   * Designed and programmed a 2D rendering engine written in C# and XNA * Designed and implemented a rudimentary physics engine including real-time collision detection based on circular hitboxes as well as the simulation of object motion in space * Designed and programmed a text based level editor * Designed and created the game’s menu system   ***Tools:*** *Visual Studio 2010, C#, XNA 4, SVN* | | |
| **Monkey of Puppets** | **Programmer** | **Jan 2010 (48 hours)** |
| During the 2010 Nordic Game Jam, I worked on a 2D puzzle game where players have to guide the protagonist in 2D mazes while avoiding enemies.   * Designed and programmed a 2D tile-based engine using C# and XNA * Designed and implemented the player, key and door classes * Created a unified state management system for handling game and audio events * Implemented AI logic allowing bots to have line-of-sight of player and ability to track to a position   ***Tools:*** *Visual Studio 2008, C#, XNA 3.1, SVN* | | |
| **MiniGolf/GnomeEngine** | **Programmer** | **Nov 2009 to Dec 2009** |
| Minigolf is a 3D golf game made using the GnomeEngine which is an OpenGL/C++ library I created to provide reusable rendering and physics operations.   * Provided camera control helper functions for the user * Implemented texturing support (TGA file format) and 3D Model support (3DS file format) * Designed and created a menu system with button components managed by its container menu screen and a bunch of screens managed by a MenuManager   ***Tools:*** *Visual Studio 2008, C++, OpenGL* | | |

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| **Professional Experience** |

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| **IT University of Copenhagen, Denmark** | **Teaching Assistant** | **Aug 2010 to May 2011** |
| This role involved providing one on one support to students of the games line at the University. I assisted in two courses:   * **Game Design** - I acted as producer in student game projects – setting up milestones, pointing out workflow flaws and feature priorities * **Game Development** - I held two part lecture series titled **“Introduction to Unreal Engine”** and provided individual advice regarding the Unreal Engine during student’s project development | | |
| **Paintbox Studio, New Delhi, India** | **Co-Founder** | **Aug 2007 to Jan 2009** |
| I was part of the trio that setup this 3D art studio in India. Paintbox studio is based around the objective of bringing high standard art production to the Indian market. The company is still operative and making good on their objective. Company website: [www.paintbox.in](http://www.paintbox.in)   * Responsible for **marketing and sales**, along with managing the company’s **financial planning** and record-keeping * Analyzed multimedia frameworks like **XNA, TorqueX, Unreal Engine 3, Actionscript** with view of incorporating them into company’s business strategy | | |
| **Ernst & Young, Lyndhurst, NJ** | **Programmer Analyst** | **Feb 2006 to April 2007** |
| * Designed and developed questionnaire **web application** using UI elements from NetAdvantage and AJAX.NET on the ASP.NET framework, coded in C# * Provided support for **XML DOM parser** application which was used to transfer data from Sharepoint database to questionnaire-rendering database * Administered and Managed **Database servers** (SQL Server 2000), Windows servers and **IIS** | | |

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| **Education** |

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| Master of Science Aug 2009 – Sep 2011  *Media Technology & Games - Technology* | IT University of Copenhagen, Denmark |
| Bachelor of Science Aug 2004 – Dec 2005  *Major: Computer Science, Minor: Applied Mathematics* | Coastal Carolina University, South Carolina, USA |

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| **Personal Information** |

**Nationality** Indian

**English Proficiency** Fluent (written and spoken); 8.0 IELTS Overall Band Score

**Membership** International Game Developers Association (IGDA), Denmark Chapter

**Interests** Photography, bouldering, paintball, video games, board games

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| **References** | Contact information for references will be furnished upon request |

* **Jonas Wæver**, Chief Creative Officer, Off Topic Productions
* **Hans Henrik Hvoslef**, Level Designer, Monkey of Puppets & The Gods Must be Crazy