Profile

Hard-working Software Engineer with strong C++ and mathematical skills with professional working experience within the games industry.

Good problem-solving skills and great communication abilities enable him to work directly in a team with a high level of dedication. He is a strongly motivated person seeking for new challenges that will give him the opportunity to continue learning.

Technical Skills

Programming Languages	Mathematics	Software/Games Engineering
- C - C++ - C# - Java - SQL	- Linear Algebra 3D Geometry - Trigonometry - Calculus	- OOP - Data Structures - Design Patterns - Multiplayer - Multithreading - Networks
Game Engines	IDEs	Source Control & Misc.
- Unreal Engine 4 - Unity 3D	- Visual Studio - Eclipse	- Perforce - Github - Jira & Confluence

Employment

Gameplay Programmer
Splash Damage (London - UK)
November 2015 – December 2017

Worked on an unannounced **AAA title for PC, PS4 and Xbox One**.

- Communicate and work efficiently within a team of programmers along with artists and designers to build a high-quality and appealing fun game.
- Utilise Industry Tools such as Perforce and Jira as well as Agile Scrum development methodologies.
- Responsible for meeting deadlines for features to hit important milestone dates.

Dirty Bomb® - Online Multiplayer FPS - www.dirtybomb.com

Worked on the development of new characters abilities and weapon systems.

- Released new character Javelin for the GamesCom 2017.
- Released new character Guardian.
- Released new character Hunter.

Junior Programmer
West Pier Studio (Brighton - UK)
June 2014 – November 2015

Worked on the development of new features for **DeckTools Inspire®**, studio's main project developed in Unity.

- Focused on the design and implementation of programming solutions for procedural generation of content, gameplay, ui and tools.

Personal Projects

- **Procedural City Engine** developed in C++ and OpenGL ES 2.0. Worked as a part of a team generating the streets (both road and pavement meshes), their layout and intersections by applying a *mitre joint* technique. Also in charge of modifying an existing Collada builder to load and procedurally place several 3D models on the generated city.

- **Procedural Fractal Landscape generator** developed in C++ and OpenGL ES 2.0. Uses a stochastic algorithm along with several transformation functions such as smoothing, thermal erosion and perturbation. Custom designed shaders apply textures based on terrain height, create water reflection, waves simulation, and render the skybox.

- **L-System renderer** developed in C++ and OpenGL ES 2.0 that generates realistic 2D and 3D vegetation procedurally. Able to load different L-Systems from configuration files, step through its successive iterations and modify some of their parameters.

- **Procedural Dungeon Generator tool** developed in C++ and OpenGL ES 2.0 that generates randomly shaped and realistic 2D map dungeons using several techniques such as *Graphs*, *Minimum Spanning Trees*, *Separation Behaviours* and *Delaunay Triangulation*.

- JeroQuest 3D. **Educational game developed with Unity** that facilitates the understanding of OOP and intelligent systems. Through the use of *Reflection* the game is able to read at runtime the rules and behaviour of the characters previously coded by the users. "E-learning" Award Winner - Partners EPI-GIJON.

Education

2013 – 2014 MSc Computer Games and Entertainment (Distinction)
Goldsmiths University of London

2007 – 2013 Computer Engineering Degree (First)
University of Oviedo (Spain)

Interests

Games have been his passion since he got a console at the age of nine, not just because of the great fun when playing but also really interested in the tech behind them. He's interested in a wide range of games genres such as *Action-Adventure, Open-World* and *Shooters*.

He is also passionate about music, playing the electric guitar since he was 15 and attending as many gigs as he can. Travelling, watching films and practising sport are some of the activities he loves to do in his spare time.

References

Mark Tregonning
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Splash Damage
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Daniel Yeung
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