



Sebastián Valdés

SOFTWARE ENGINEER

Sheffield, UK <-> Barcelona, Spain  
Catalan & Spanish (Native), English (C1)

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EXPERIENCE VIEW MY PORTFOLIO: WWW.TEBAS.DEV



Junior C++ Programmer | Steel Minions

Sheffield, UK  
April 2025 - July 2025

- Developed a 2D educational vectorial game in C++ with Python scripting for first-year computing students.
- Firebase integration for student login, leaderboard tracking, and remote task management by lecturers.



Gameplay Programmer | Dark Moth

València, Spain  
Sep. 2022 - July 2023

- Developed INVICTA: The Next Queen (top-down Soulslike) in Unreal Engine, published on Steam.
- Implemented animation systems, combat mechanics, and gameplay features (e.g. parrying, lock-on, status effects).

RELEVANT PROJECTS



Poyo Engine



Microsoft® DirectX<sup>®</sup>11

- Designed and developed a custom engine entirely solo using ECS architecture.
- Implemented core systems: Deferred Shading, PBR materials, GPU skinning mesh animations, Frustum Culling, Shadow Mapping...
- Added editor tools (Undo/Redo, Object Selection, Gizmos, Logger) and optimised rendering with Direct State Access and Multi Draw Indirect.
- Ported the engine to DirectX 11 for Xbox One support.

Sep. 2022 - Jun. 2023

Links: DevLog Trailer



INVICTA: The Next Queen

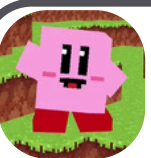


UNREAL ENGINE

- Collaborated on the development of a top-down Soulslike, published on Steam.
- Led all animation programming: state machines, blend spaces, layered systems, and anim-notifies for frame-accurate gameplay events.
- Integrated all rigs and animations from artists and riggers.
- Implemented combat features including parrying, enemy lock-on, status effects, custom projectiles, and fast-travel portals.

Sep. 2022 - July 2023

Links: DevLog Trailer Steam Page



Cubed Cube<sup>3</sup>



NINTENDO GAMECUBE™

- Built a voxel engine for the GameCube (2001, 24MB RAM, fixed-pipeline).
- Implemented procedural terrain, real-time sprite and skeletal animation, batching, frustum and occlusion culling, vertex packing, and custom memory optimisations.
- Project selected as a finalist and awarded Best Individual Project at Game Over 25, Sheffield Hallam University's end-of-year showcase, judged by professionals from the games industry.

Sep. 2024 - Jan. 2025

Links: DevLog Trailer



SkyGlyphs



PS5™

- Built a custom game engine for PS5 from scratch in Semester 1, including a real-time skeletal animation system with GPU skinning.
- In Semester 2, extended the engine as part of a team of 6 people to develop a cooperative Pikmin-style game. Developed features such as animation blending and an interactive grass system affected by wind and player footsteps, using compute shaders.

Jan. 2025 - May. 2025

Links: DevLog

SKILLS

[ ] = I have some experience

LANGUAGES

C++ C# C Lua YAML SQL  
Python GLSL HLSL Assembly

FRAMEWORKS/ LIBRARIES /APIs

STL OpenGL 4.6 DirectX11  
Vulkan 1.3 PS5 SDK GameCube SDK  
XBOX One SDK ImGui SFML SDL 2  
Raylib SoLoud .NET

ENGINES

UE4 UE5 Unity Godot Poyo

SOFTWARE

Rider Visual Studio GitHub Perforce  
Blender Aseprite Jira Trello Office  
Maya

EDUCATION

Sheffield Hallam University

2024 - 2025

United Kingdom

BSc Hon Computer Science for Games  
Average Grade: First Class

ESAT

2020 - 2023

València, Spain

HND in Computing, BTEC Level 5  
Average Grade: Distinction

AWARDS



BEST STUDENT GAME

Invicta: The Next Queen

GAMESCOM LATAM 2024

Finalist



BEST INDIVIDUAL PROJECT

Cubed Cube<sup>3</sup>

GAME OVER 2025

Winner

ADDITIONAL INFO

Private Tutor: C++ & OpenGL

Provided one-on-one tutoring sessions over two years to students from both ESAT and Sheffield Hallam University. Focused on graphics programming and engine architecture fundamentals. Supporting their progress and confidence has been personally rewarding.