Alex Koukoulas

Software Engineer Student

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Education:

• 2013-2017(In Progress) Software Engineering, BSc (Hons)
University of Glasgow

<u>Skills:</u>

- Programming Languages: C++(3 years); Java(3 years); C(2 years); Python(2 years); Assembly(1 year); Javascript(1 year); XHTML(1 year)
- Graphics Programming Techniques: Phong reflection model; texturing; billboarding; frustum culling; scene graphs; particle systems; model loading & rendering; HLSL & GLSL; bitmap manipulation; 3D Pipeline
- API and Libraries: Direct3D 11.0; OpenGL 3.3; STL; Windows API; Box2D; Javax Swing; Django; jQuery
- Development Tools: Visual Studio 2013/2015; Unity3D Engine; GIT; SVN; Emacs; Blender

Projects:

(Source code and demos available on my website and Github profile)

• PokeRevo(PC) 2015-present

Languages: C++, Java (Direct3D 11.0)

Info: A 3D recreation of an old Gameboy title with custom 3D models and textures. Furthermore a bitmap manipulation tool was developed to translate the original level textures into custom 3D level files.

• Breakout3D(PC) 2014

Languages: C++ (Direct3D 11.0)

Info: A 3D Breakout-style game featuring the Phong reflection model and a combinatory upgrade system.

• ScrabbleGL(PC) 2013-2014

Languages: Java (OpenGL 3.3)

Info: A 2D adaptation of the original board game. Includes animations for all game objects, responsive UI and sessions against competent AI.